MITSUBISHI
THE BIG SCREEN COMPANY™
Digital

Owner's Guide

Projection Television Models

CABLE/DBS
TV
VCR
DVD
AUDIO
POWER
1
2
3
4
5
6
7
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SQV
0
QV
HOME THEATER
SLEEP
VIDEO
AUDIO
MUTE
INPUT
CHANNEL
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ENTER
HOME
EXCH
ADJUST
CANCEL
MENU
V-CHIP
PIP
PIP CH
INFO
PIP SIZE
PIP INPUT
GUIDE
REC
STOP
PAUSE
REW/REV
PLAY
FF/FWD
MITSUBISHI

Technically Anything is Possible®

visit our website at
www.mitsubishi-tv.com

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Warning: To avoid permanently imprinting a fixed image onto your TV screen, please do not display the same stationary images on the screen for more that 15% of your total TV viewing in one week. Examples of stationary images are letterbox top/bottom bars from DVD disk or other video sources, side bars when showing standard TV pictures on widescreen TV’s, stock market reports, video game patterns, station logos, web sites or stationary computer images. Such patterns can unevenly age the picture tubes causing permanent damage to the TV. Please see pages 21 and 52 for a detailed explanation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Mitsubishi could void the user’s authority to operate this equipment.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:
TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

NOTE TO CATV SYSTEM INSTALLER:
THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER’S ATTENTION TO ARTICLE 820-40 OF THE NEC THAT PROVIDES GUIDELINES FOR THE PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

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IMPORTANT SAFEGUARDS

Please read the following safeguards for your TV and retain for future reference.

Always follow all warnings and instructions marked on the television.

1. **Read, Retain and Follow All Instructions**
   Read all safety and operating instructions before operating the TV. Retain the safety and operating instructions for future reference. Follow all operating and use instructions.

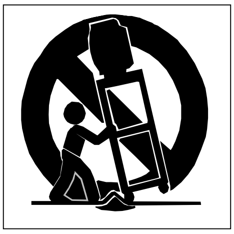
2. **Heed Warnings**
   Adhere to all warnings on the appliance and in the operating instructions.

3. **Cleaning**
   Unplug the TV from the wall outlet before cleaning. Do not use liquid, abrasive, or aerosol cleaners. Cleaners can permanently damage the cabinet and screen. Use a lightly dampened cloth for cleaning.

4. **Attachments and Equipment**
   Never add any attachments and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. **Water and Moisture**
   Do not use the TV where contact with or immersion in water is possible. Do not use near bath tubs, wash bowls, kitchen sinks, laundry tubs, swimming pools, etc.

6. **Accessories**



   Do not place the TV on an unstable cart, stand, tripod, or table. The TV may fall, causing serious injury to a child or adult and serious damage to the TV. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV. Any mounting of the TV should follow the manufacturer's instructions, and should use mounting accessories recommended by the manufacturer.

   An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. **Ventilation**
   Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV and to protect it from overheating. Do not block these openings or allow them to be obstructed by placing the TV on a bed, sofa, rug, or other similar surface. Nor should it be placed over a radiator or heat register. If the TV is to be placed in a rack or bookcase, ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

8. **Power Source**
   This TV should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.

9. **Grounding or Polarization**
   This TV is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

10. **Power-Cord Protection**
    Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the TV.

11. **Lightning**
    For added protection for this TV during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV due to lightning and power-line surges.

IMPORTANT SAFEGUARDS Continued

12. Power Lines
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

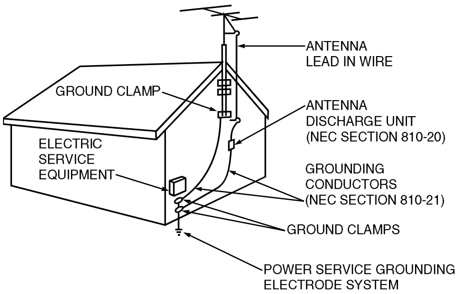
13. Overloading
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

14. Object and Liquid Entry
Never push objects of any kind into this TV through openings as they may touch dangerous voltage points or short-out parts that could result in fire or electric shock. Never spill liquid of any kind on or into the TV.

15. Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING



NEC — NATIONAL ELECTRICAL CODE

16. Servicing
Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

17. Damage Requiring Service
Unplug the TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:

(a) When the power-supply cord or plug is damaged.
(b) If liquid has been spilled, or objects have fallen into the TV.
(c) If the TV has been exposed to rain or water.
(d) If the TV does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to its normal operation.
(e) If the TV has been dropped or the cabinet has been damaged.
(f) When the TV exhibits a distinct change in performance - this indicates a need for service.

18. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

19. Safety Check
Upon completion of any service or repair to the TV, ask the service technician to perform safety checks to determine that the TV is in safe operating condition.

20. Heat
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

As an ENERGY STAR partner, Mitsubishi Digital Electronics America, Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency. This product can save energy. Saving energy reduces air pollution and lowers utility bills.

If you have questions regarding your television, call
Consumer Relations
at (800) 332-2119, or email us at
MDEAservice@bigscreen.mea.com

To order replacement or additional remote controls or owner's guides
call (800) 553-7278

or

visit our website at **www.mitsubishi-tv.com**

Part I

Thank You

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A Note of Thanks from Mitsubishi...

Thank you for choosing Mitsubishi as your premier home entertainment partner. The development team at Mitsubishi understands that our customers are not the average people: they demand and expect the very best. Hence, countless hours have been invested to produce a sophisticated product that we hope will meet all of your expectations.

Whether this is your first Mitsubishi consumer electronic product or simply an addition to your growing Mitsubishi family, we hope that this television will bring you and your family many hours of joy. We are delighted that you chose such a technically advanced product. We know you will not be disappointed.

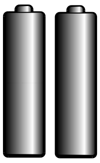
Unpacking Your New TV

Please take a moment to review the following list of items to ensure that you have received everything included:

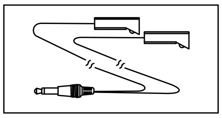
1 Remote Control
2 (2) AAA Batteries
3 (2) IR Emitter Cables (VS-60719 and VS-70709 ONLY)
4 Product Registration Card
➡ Owner's Guide
➡ Quick Reference Card

(VS-60719 and VS-70709)
(VS-45609, VS-50609, VS-55609, and VS-60609)

1 *Remote Control*



2 *(2) AAA Batteries*



(VS-60719 and VS-70709 ONLY)

3 *(2) IR Emitter Cables*

PRODUCT REGISTRATION
MITSUBISHI
THE BIG SCREEN COMPANY
Digital
Send this card in to register your purchase

Product Registration Card

Features

Your new bigscreen television has many features that make it the perfect addition to your home entertainment system. Below we have highlighted a handful.

System 4 Home Theater IR Control

VS-60719 & VS-70709

This special feature makes it easier to use your TV with a digital surround sound A/V receiver.

See pages 20 & 48-49.

PIP Viewing Option

Using Picture-in-Picture will give you exciting options for viewing your favorite programs.

See pages 50-51.

V-Chip Technology

Mitsubishi understands that you may want to shield certain viewers from specific program content. Your Mitsubishi bigscreen will allow you to restrict Programming by general contents, specific contents, or even by time.

See pages 33-35.

Multibrand Remote Control

Your Mitsubishi remote control can be programmed to control many other audio/video components.

See page 24-25.

Diamond Shield™

Your Mitsubishi TV is custom fitted with a Diamond Shield that adds a protective shield to the TV screen and enhances the picture quality.

Unlike typical television manufacturers, we have based our primary design and engineering capabilities in North America at our California headquarters. As a result, the engineers who design our television products live in the same communities as our customers. They know how our customers think and what their goals and desires are. They know that today's consumer has never been more sophisticated and that the way to reach that consumer is to deliver technically advanced products at prices that our competition simply can't match.

Part II

Installation

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Audio Receiver............................ 18
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Front Control Panel

Many remote control buttons are duplicated on the front control panel. These buttons are shaded in figures 1 and 2. Please see *Remote Control Functions*, pages 46-51, for an explanation of their functions. You may temporarily deactivate the buttons on the front control panel with the Front Button Lock feature, see *Front Button Lock*, page 39.

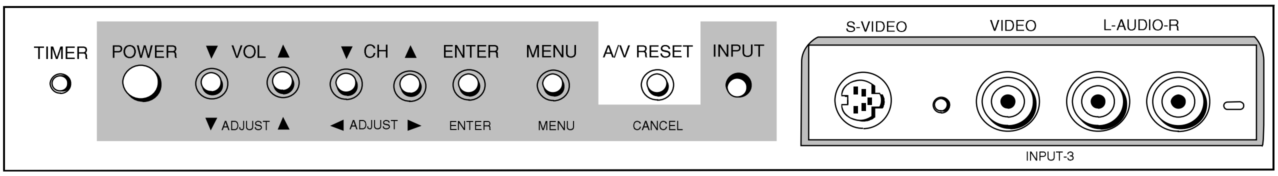

TIMER
POWER
▼ VOL ▲
▼ CH ▲
ENTER
MENU
A/V RESET
INPUT
▼ ADJUST ▲
◀ ADJUST ▶
ENTER
MENU
CANCEL
S-VIDEO
VIDEO
L-AUDIO-R
INPUT-3

Figure 1. *Front Control Panel for models VS-45609, VS-50609, VS-55609, and VS-60719.*

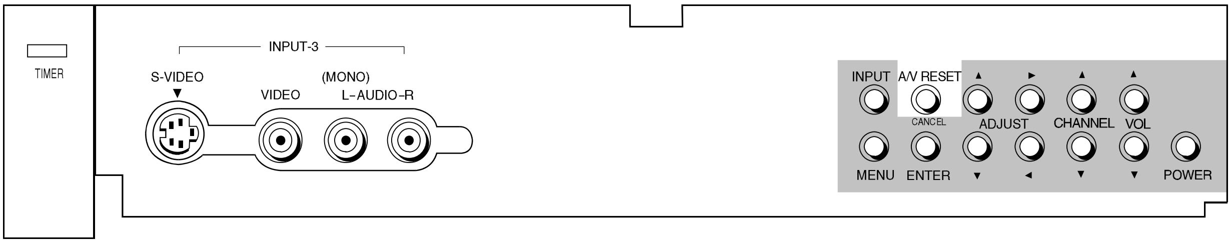

TIMER
INPUT-3
S-VIDEO
(MONO)
VIDEO
L-AUDIO-R
INPUT
A/V RESET
CANCEL
ADJUST
CHANNEL
VOL
MENU
ENTER
POWER

Figure 2. *Front Control Panel for model VS-70709.*

IMPORTANT

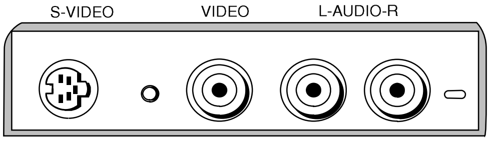
➞ **The Front Button Lock can be disabled from the Front Control Panel by depressing the MENU button for 8 seconds. When successful, the message "Front Button Lock Disabled" will display on the screen.**

TIMER ○ **or** TIMER **Timer**

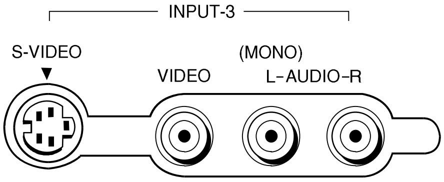
During normal operation, when the TV is set to turn on at a specific time, the green timer light will blink while the TV is off. Please see *Timer*, page 37, for timer setup instructions.

A/V RESET **A/V Reset**

Press this button to reset the A/V memory on all six inputs to the factory default settings. To reset each input individually, see *A/V Memory Reset*, page 40.


S-VIDEO
VIDEO
L-AUDIO-R

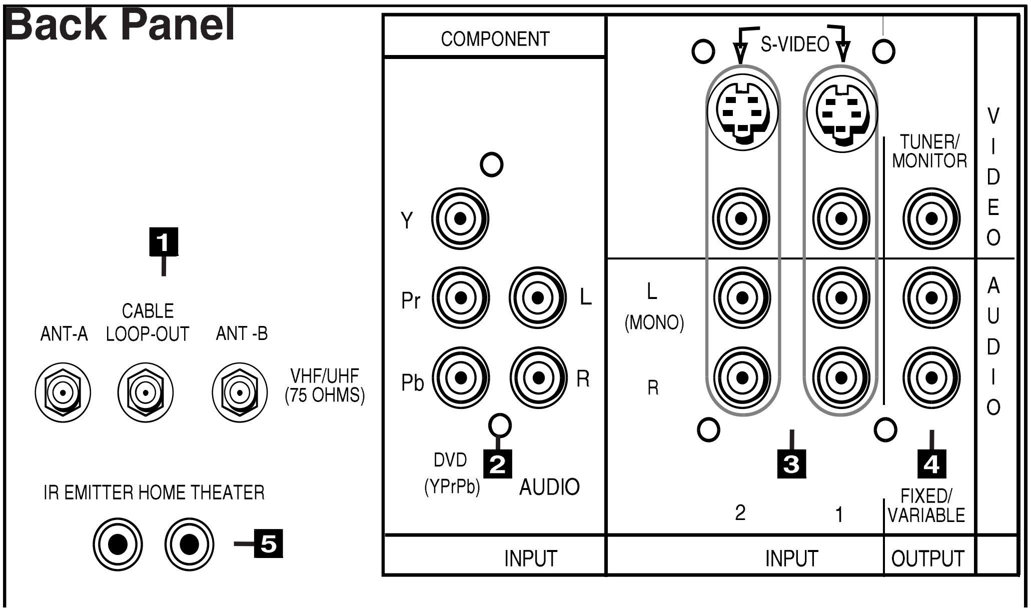
or


INPUT-3
S-VIDEO
(MONO)
VIDEO
L-AUDIO-R

Input 3

This input can be used for convenient connection of a camcorder or other video device to the TV. Please note that if you connect to the S-VIDEO terminal, the VIDEO terminal is deactivated. The VIDEO terminal is active when there is no S-Video connection.

Back Panel


COMPONENT
S-VIDEO
TUNER/ MONITOR
VIDEO
Y
Pr
Pb
L
R
L
(MONO)
R
AUDIO
1
CABLE LOOP-OUT
ANT-A
ANT -B
VHF/UHF (75 OHMS)
DVD (YPrPb)
2
AUDIO
3
4
2
1
FIXED/ VARIABLE
INPUT
INPUT
OUTPUT
IR EMITTER HOME THEATER
5

1 Antenna (ANT-A, CABLE LOOP-OUT, ANT-B)

ANT-A and ANT-B receive signals from VHF/UHF antennas or a cable system. LOOP OUT sends the ANT-A signal out to another component, such as a cable box or VCR.

2 Component Input

This input can be used for the connection of A/V equipment with component video outputs, such as a DVD player. Please see *Appendix B*, page 57, for signal compatibility.

3 Inputs 1-2

These inputs can be used for the connection of a VCR, Super VHS (S-VHS) VCR, laser disc player, or other A/V device to the TV. Please note that if you connect to the S-VIDEO terminal, the VIDEO terminal is deactivated. The VIDEO terminal is active when there is no S-Video connection.

4 Output (Tuner/Monitor)

The Tuner/Monitor Output sends the TV audio and video signals, excluding component video, to an A/V receiver or other equipment.

5 IR Emitter Home Theater (System 4 Home Theater IR Control)

Models VS-601719 and VS-70709

Connecting IR emitters here allows the TV to automatically change a digital A/V receiver's input in a home theater setup, and pass IR commands to other A/V devices.

How Connections Affect the PIP

To see a picture in the PIP inset, you may need to select an input source. If the only input connected is ANT-A, then both the main picture and the PIP insert will be from that input source. If other video equipment is connected, you may be able to view these input sources as the PIP insert. When connecting your new Mitsubishi bigscreen, it is important to understand which main picture and PIP input sources can and cannot be used together. Table 1 shows which inputs can and cannot be used together and their limitations. To see which input is being displayed as the main picture, press INFO on the TV remote control. To see which input is being displayed as the PIP and for PIP operating instructions, see *Operation of PIP,* pages 50-51.

PIP MAIN	ANT-A	ANT-B	INPUTS 1-3	COMPONENT INPUT
ANT-A	OK	NO PIP	OK	NO COMPONENT PIP
ANT-B	OK	OK*	OK	NO COMPONENT PIP
INPUTS 1-3	OK	OK	OK	NO COMPONENT PIP
COMPONENT INPUT	OK	OK	OK	NO COMPONENT PIP

Table 1. How connections affect the PIP.
*PIP must be the same channel as MAIN.

How Connections Affect the System 4 Home Theater IR Control

Models VS-60719 and VS-70709

The Mitsubishi System 4 Home Theater IR Control is a special feature that makes it easier to use your TV with a digital surround sound A/V receiver. Once your equipment is properly connected and set up, your TV and digital A/V receiver will change inputs together, to match your selected video input with the corresponding audio input.

When you change inputs on your TV to watch different video products, your TV will send signals via your remote control and the infrared emitters to your digital A/V receiver to change inputs. You will automatically hear the high quality digital surround sound from digital products like your DVD player, and high quality analog stereo or surround sound from non-digital products like your VCR.

Additionally, all IR remote signals from your Mitsubishi remote or other manufacturers remote will be passed through your TV to your A/V devices. Your A/V devices can be hidden or behind cabinet doors and controlled by pointing the remote at the TV.

Special Setups: A/V Equipment (For System 4 Home Theater IR Control)

VCR: Connect the cables to the TV as directed on page 17, with the following exception: Connect the audio output connection to the appropriate input on the back of the A/V receiver (as shown in table 1).

DVD: Connect the cables as directed on page 19 (using the COMPONENT input), with the following exception: Connect the digital audio output connection on the DVD player to the appropriate digital input on the back of the digital A/V receiver (as shown in table 1).

A/V Receiver: Connect as directed on page 18, then complete the following two steps. Use an S-Video cable in step 1 if you have an S-Video VCR. The TV outputs should be connected to the A/V receivers input marked TV.

- **Auto Standby:** ON (See your A/V receiver's Owner's Guide for this procedure). For all TV use, the sound will come from the A/V receiver. Not available with all A/V receivers.
- **Digital Input Assignment for DVD:** Assign the digital input you used for your DVD player to the A/V receiver's DVD input selector. This procedure is explained in your A/V receiver's Owner's Guide.

Infrared Emitter: Connect as shown on page 20.

Special Setups: TV

Menu selection for A/V connections, page 41.

- **TV Speakers:** OFF
- **Audio Output:** Fixed

Remote Control, pages 24-25.

- Set the slide switch to the TV position and follow the programming instructions using the A/V receiver code appropriate for your A/V receiver, page 25 (figure 5).

Brand	Model	The products listed at the top of this column should connect to the inputs on the back of the appropriate A/V receiver listed to the left.			
		TV / Cable	SAT/DBS/DTV	VCR	DVD
Mitsubishi	M-VR800 / M-VR1000	TV	VCR2	VCR1	DVD
Mitsubsihi	M-VR700 / M-VR900	TV	CABLE/DBS	VCR	DVD
Denon	RX-888V	TV/DBS	VCR2	VCR1	DVD/LD
JVC	VR-2080	TV	VIDEO 2	VCR 1	DVD
Kenwood	TX-DS575	AV AUX	LD	VIDEO 1	DVD
Onkyo	VSX-21	VIDEO 3	VIDEO 2	VIDEO 1	DVD
Pioneer	STR-DE825	TV/SAT	VIDEO 2	VCR 1	DVD/LD
Sony	RX-V2095	TV/DBS	VIDEO 2	VIDEO 1	DVD/LD
Yamaha		TV/DBS	VCR 2	VCR1	DVD/LD

Table 1. *A/V receiver back panel input table*

Connecting an Antenna, Wall Outlet Cable, or Cable Box

Separate UHF and VHF Antennas

(Figure 1)

1 Connect the UHF and VHF antenna leads to the UHF/VHF combiner.

2 Push the combiner onto ANT-A on the TV back panel.

➡ UHF/VHF combiners are not provided with the TV. They should be available at most electronic stores.

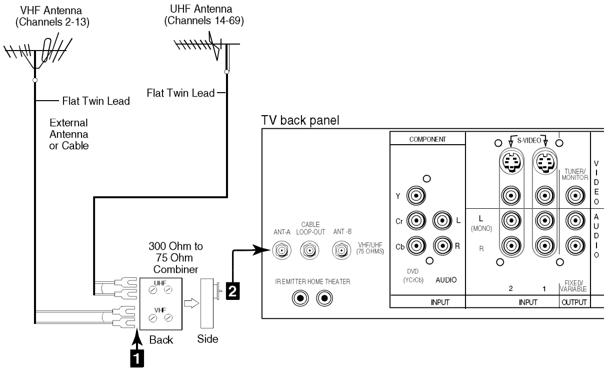

VHF Antenna
(Channels 2-13)
UHF Antenna
(Channels 14-69)
Flat Twin Lead
Flat Twin Lead
External Antenna or Cable
TV back panel
300 Ohm to 75 Ohm Combiner
UHF
VHF
Back
Side
1
2
ANT-A
CABLE LOOP-OUT
ANT-B
VHF/UHF (75 OHMS)
IR EMITTER HOME THEATER
COMPONENT
S-VIDEO
TUNER/MONITOR
VIDEO
AUDIO
DVD (YCrCb)
INPUT
OUTPUT
FIXED/VARIABLE

Figure 1. Connecting separate UHF and VHF antennas.

Twin Lead Antenna, Coaxial Lead Antenna, or Wall Outlet Cable

For antenna with twin flat leads (Figure 2)

1 Connect the 300ohm twin leads to the transformer.

2 Push the 75ohm side of the transformer onto ANT-A on the TV back panel.

➡ 300ohm to 75ohm matching transformers are not provided with the TV. They should be available at most electronic stores.

For cable or antenna with coaxial lead (Figure 2)

3 Connect the incoming cable to ANT-A on the TV back panel.

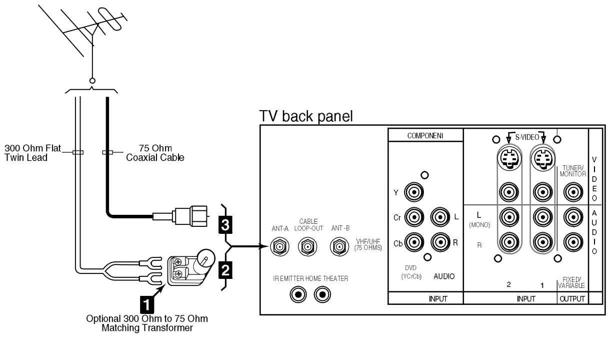

TV back panel
300 Ohm Flat Twin Lead
75 Ohm Coaxial Cable
Optional 300 Ohm to 75 Ohm Matching Transformer
1
2
3
ANT-A
CABLE LOOP-OUT
ANT-B
VHF/UHF (75 OHMS)
IR EMITTER HOME THEATER
COMPONENT
S-VIDEO
TUNER/MONITOR
VIDEO
AUDIO
DVD (YCrCb)
INPUT
OUTPUT
FIXED/VARIABLE

Figure 2. Connecting twin lead antenna, coaxial lead antenna, or wall outlet cable.

IMPORTANT

➡ Additional connection cables are not provided with the TV. They should be available at most electronic stores.

Cable Box

(Figure 3)

1 Connect the incoming cable to ANT-A on the TV back panel.

➡ Connect two coaxial cables as follows:

2 One from LOOP-OUT on the TV back panel to IN on the cable box back panel.

3 One from OUT on the cable box back panel to ANT-B on the TV back panel.

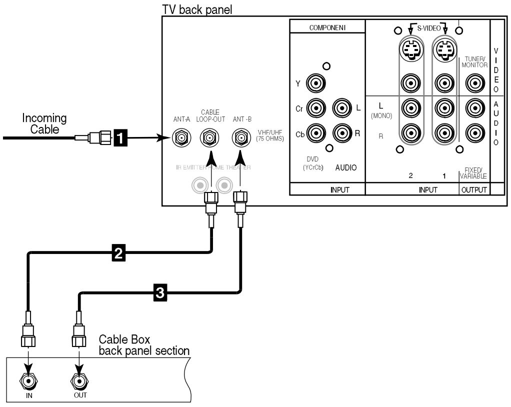

TV back panel
Incoming Cable
1
2
3
Cable Box back panel section
IN
OUT
ANT-A
CABLE LOOP-OUT
ANT-B
VHF/UHF (75 OHMS)
COMPONENT
S-VIDEO
TUNER/MONITOR
VIDEO
AUDIO
DVD (YCrCb)
INPUT
OUTPUT
FIXED/VARIABLE

Figure 3. Connecting the cable box.

Connecting a VCR

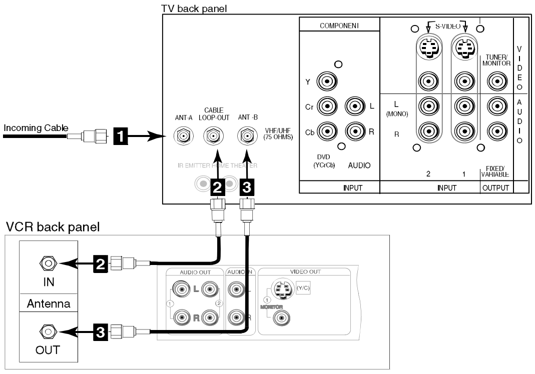

TV back panel
Incoming Cable
1
ANT-A
CABLE LOOP-OUT
ANT-B
VHF/UHF (75 OHMS)
COMPONENT
Y
Cr
Cb
DVD (Y/Cr/Cb)
AUDIO
L
R
S-VIDEO
TUNER/ MONITOR
VIDEO
AUDIO
(MONO)
FIXED/ VARIABLE
INPUT
OUTPUT
2
3
VCR back panel
IN
Antenna
OUT
AUDIO OUT
AUDIO IN
VIDEO OUT
MONITOR

Figure 1. *Connecting VCR with antennas or wall outlet cable.*

IMPORTANT

➡ **Additional connection cables are not provided with the TV. They should be available at most electronic stores.**

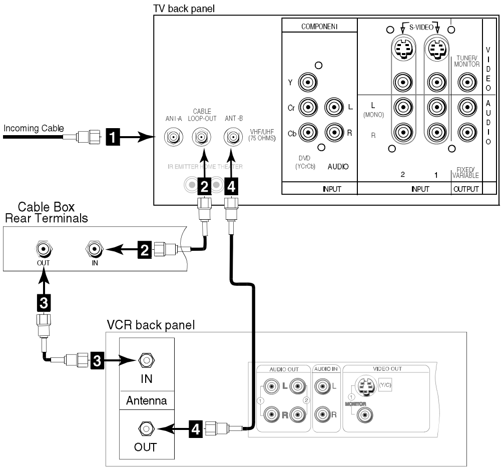
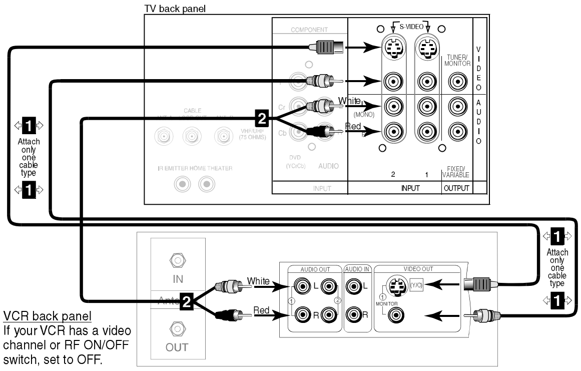

TV back panel
Incoming Cable
1
ANT-A
CABLE LOOP-OUT
ANT-B
VHF/UHF (75 OHMS)
COMPONENT
S-VIDEO
TUNER/ MONITOR
AUDIO
INPUT
OUTPUT
2
4
Cable Box Rear Terminals
OUT
IN
3
VCR back panel
IN
Antenna
OUT
AUDIO OUT
AUDIO IN
VIDEO OUT
MONITOR

Figure 2. *Connecting VCR with cable box.*


TV back panel
S-VIDEO
TUNER/ MONITOR
VIDEO
AUDIO
White
Red
2
1
Attach only one cable type
1
INPUT
OUTPUT
FIXED/ VARIABLE
IN
White
Red
OUT
AUDIO OUT
AUDIO IN
VIDEO OUT
MONITOR

VCR back panel
If your VCR has a video channel or RF ON/OFF switch, set to OFF.

Figure 3. *Connecting the VCR Audio/Video.*

Antennas or Wall Outlet Cable

(Figure 1)

1 Connect the incoming cable to ANT-A on the TV back panel.

➡ Connect two coaxial cables as follows:

- **2** One from LOOP-OUT on the TV back panel to ANTENNA IN on the VCR back panel.
- **3** One from VCR back panel ANTENNA OUT to ANT-B on the TV back panel.

4 Now complete figure 3, steps 1-2.

Cable Box

(Figure 2)

1 Connect the incoming cable to ANT-A on the TV back panel.

➡ Connect three coaxial cables as follows:

- **2** One from LOOP-OUT on the TV back panel to IN on the back of the cable box.
- **3** One from OUT on the back of the cable box to ANTENNA IN on the VCR back panel.
- **4** One from ANTENNA OUT on the VCR back panel to ANT-B on the TV back panel.

5 Now complete figure 3, steps 1-2.

Composite Video with Audio or S-Video with Audio

(Figure 3)

1 Connect a video cable from VIDEO OUT on the VCR back panel to VIDEO INPUT-1, or INPUT-2 on the TV back panel, or INPUT-3 on the TV Front Control Panel.

- ➡ If you have an S-VHS VCR, follow the same steps using the S-Video terminals on the VCR and TV (in place of the composite terminals).

2 Connect a set of audio cables from AUDIO OUT on the VCR back panel to AUDIO INPUT-1, or INPUT-2 on the TV back panel, or INPUT-3 on the TV Front Control Panel. The red cable connects to the R (right) channel and the white cable connects to the L (left) channel. If your VCR is mono (non-stereo), connect only the white (left) cable.

Connecting an Audio Receiver

Stereo Audio System

(Figure 1)

1. Connect the audio cables from AUDIO MONITOR OUTPUT on the TV back panel to TV IN or AUX IN terminals on the back of the audio system. The red cable connects to the R (right) channel, and the white cable connects to the L (left) channel.
2. Turn off the TV's speakers through the *Audio/Video Settings Menu*, page 41.
3. Set the audio system's input to the TV or AUX position to hear the TV's audio through your stereo system.

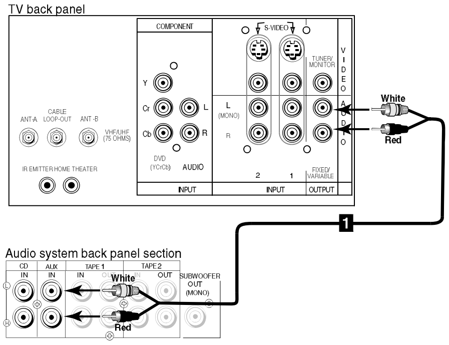

TV back panel
COMPONENT
S-VIDEO
TUNER/ MONITOR
VIDEO
AUDIO
White
Red
ANT-A
CABLE LOOP-OUT
ANT-B
VHF/UHF (75 OHMS)
L (MONO)
R
DVD (Y/Cr/Cb)
AUDIO
IR EMITTER HOME THEATER
INPUT
FIXED/ VARIABLE
OUTPUT
1
Audio system back panel section
CD IN
AUX IN
TAPE 1 IN
TAPE 2 OUT
SUBWOOFER OUT (MONO)
White
Red

Figure 1. *Connecting the Stereo Audio System*

IMPORTANT

➡ **Additional connection cables are not provided with the TV. They should be available at most electronic stores.**

A/V Receiver

(Figure 2)

1. Connect a video cable or S-Video cable from VIDEO MONITOR OUT on the back of the A/V receiver to VIDEO INPUT-1 on the TV back panel.
2. Connect a video cable from VIDEO MONITOR OUTPUT on the TV back panel to VIDEO TV IN on the back of the A/V receiver.
3. Connect a set of audio cables from AUDIO MONITOR OUTPUT on the TV back panel to AUDIO TV IN on the back of the A/V receiver. The red cable connects to the R (right) channel, and the white cable connects to the L (left) channel.

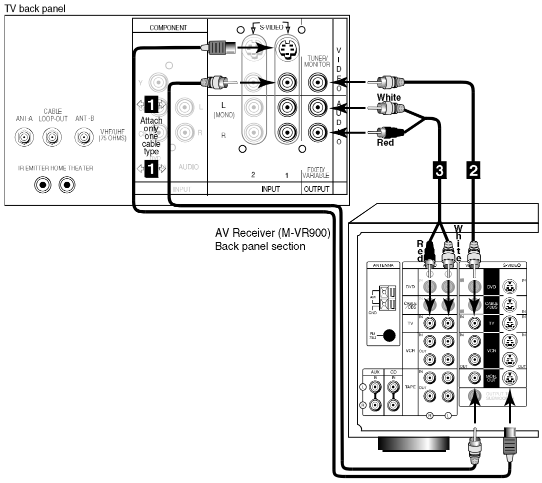

TV back panel
COMPONENT
S-VIDEO
TUNER/ MONITOR
VIDEO
AUDIO
White
Red
1
Attach only one cable type
1
ANT-A
CABLE LOOP-OUT
ANT-B
VHF/UHF (75 OHMS)
IR EMITTER HOME THEATER
INPUT
FIXED/ VARIABLE
OUTPUT
3
2
AV Receiver (M-VR900)
Back panel section
Red
White
ANTENNA
S-VIDEO
DVD
TV
VCR
AUX
CD
TAPE

Figure 2. *Connecting the A/V Receiver.*

IMPORTANT

➡ **Please see your A/V receiver Owner's Guide for more detailed connections.**

WARNING: Do not display the same stationary images on the screen for more that 15% of your total TV viewing in one week. Examples of stationary images are letterbox top/bottom bars from DVD or other video sources, side bars when showing standard TV pictures on widescreen TV's, stock market reports, video game patterns, station logos, web sites, or stationary computer images. Such patterns can unevenly age the picture tubes causing permanent damage to the TV. Please see pages 21 and 52 for a detailed explanation.

Connecting a DVD Player

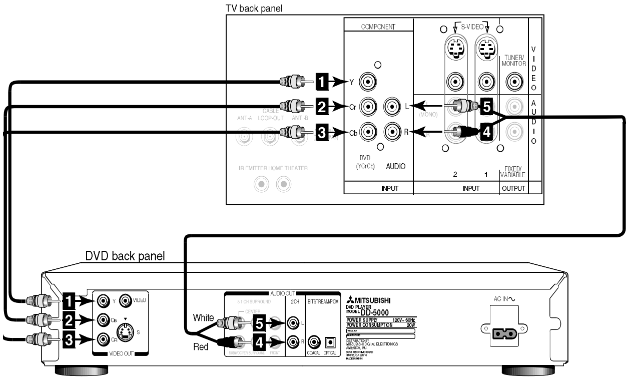

TV back panel
COMPONENT
S-VIDEO
TUNER/MONITOR
VIDEO
AUDIO
Y
Cr
Cb
L
R
(MONO)
DVD (Y/Cr/Cb)
AUDIO
FIXED/VARIABLE
INPUT
OUTPUT
1
2
3
4
5
DVD back panel
AUDIO OUT
White
Red
MITSUBISHI
DD-5000
VIDEO OUT
COAXIAL
OPTICAL
AC IN

Figure 1. Connecting the DVD player.

IMPORTANT

- ➡ See Appendix B, page 57, for component video signal compatibility information.
- ➡ For digital audio connections, see your DVD and A/V receiver Owner's Guides.

DVD Player with Component Video

(Figure 1)

➡ Connect the Component Video cables from Y/Cr/Cb or Y/Pr/Pb VIDEO OUT on the back of the DVD player to COMPONENT on the TV back panel, matching the correct components:

1 Y to Y
2 Cr or Pr to Pr
3 Cb or Pb to Pb

➡ Connect a set of audio cables from AUDIO OUT on the back of the DVD player to COMPONENT AUDIO Input on the TV back panel. The red cable 4 connects to the R (right) channel, and the white cable 5 connects to the L (left) channel.

Connecting an S-Video Device

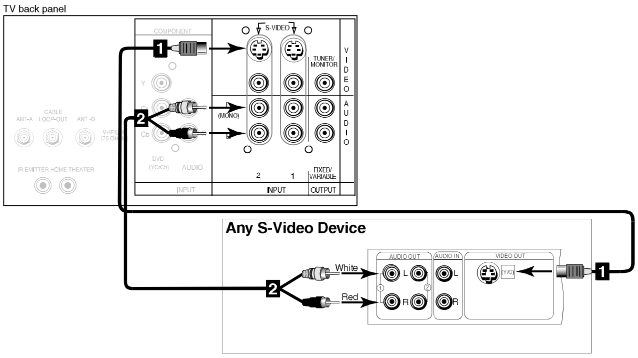

TV back panel
COMPONENT
S-VIDEO
TUNER/MONITOR
VIDEO
AUDIO
(MONO)
FIXED/VARIABLE
INPUT
OUTPUT
1
2
Any S-Video Device
AUDIO OUT
AUDIO IN
VIDEO OUT
White
Red
L
R

Figure 2. Connecting an S-Video Device.

S-Video Device

(Figure 2)

1 Connect an S-Video cable from S-VIDEO OUT on the device back panel to S-VIDEO INPUT-1, or INPUT-2 on the TV back panel, or INPUT-3 on the TV Front Control Panel.

2 Connect a set of audio cables from AUDIO OUT on the device back panel to AUDIO INPUT-1 or INPUT-2 on the TV back panel. The red cable connects to the R (right) channel and the white cable connects to the L (left) channel. If your device is mono (non-stereo), connect only the white (left) cable.

Connecting the System 4 Home Theater IR Control

Models VS-60719, VS-70709. (Figure 1)

1. Connect the IR emitter to IR EMITTER HOME THEATER on the TV back panel.
2. Place the IR emitter cable under or along the side of the A/V device. Place the IR lens directly in front of the A/V device's infrared signal receiver. Infrared signal receivers are usually behind the front translucent panel of the device.
3. Place unused transmitters in an out-of-the-way location.
4. For permanent installation of the IR emitter cable, use the included adhesive tape to secure the bottom of the emitter to the anchoring object of your choice.

IMPORTANT

→ **See page 53 for details on using the TV's IR emitter to control a Mitsubishi A/V receiver.**

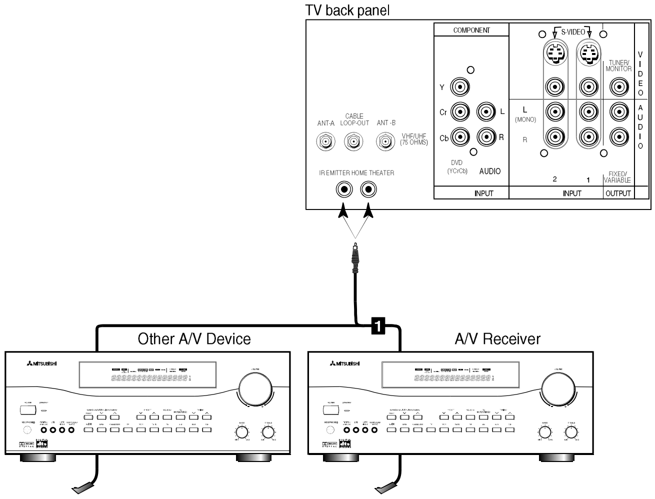

TV back panel
COMPONENT
S-VIDEO
TUNER/ MONITOR
VIDEO
AUDIO
Y
Cr
Cb
L
R
L (MONO)
R
ANT-A
CABLE LOOP-OUT
ANT -B
VHF/UHF (75 OHMS)
IR EMITTER HOME THEATER
DVD (YCrCb)
AUDIO
2
1
FIXED/ VARIABLE
INPUT
INPUT
OUTPUT
1
Other A/V Device
A/V Receiver

Figure 1. Connecting the System 4 Home Theater IR Control.

Important Notes

Warning: Do not leave stationary or letterbox images on-screen for extended periods of time. Mix the types of pictures shown. Uneven picture tube aging is NOT covered by your warranty.

The normal use of a TV should include a mixture of TV picture types. The most frequently used picture types should fill the screen with constantly moving images rather than stationary images or patterns. Displaying the same stationary patterns over extended periods of time, or displaying the same stationary pattern frequently can leave a subtle but permanent ghost image. To avoid this, mix your viewing pattern. Do not show the same stationary image for more than 15% of your total TV viewing in any one week. Display constantly moving and changing images that fill the screen whenever possible.

This projection TV uses picture tubes to project the image onto the screen. **All picture tubes age with use.** As they age, their light output is gradually reduced. Normal TV pictures fill the screen with constantly changing images. Under these conditions, picture tubes age at an even rate across the entire screen. This maintains a TV picture that is evenly bright over the whole screen. Stationary images or images that only partially fill the screen (leaving black or colored bars to fill the screen), when used over extended periods of time or when viewed repeatedly, can cause uneven aging of the phosphors and leave subtle ghosts of the stationary images in the picture

Still or stationary images may be received from broadcasters, cable channels, satellite channels, DVD discs, video tapes, laser discs, on-line services, web/internet searching devices, video games, and digital TV tuner/converter boxes. Examples of these types of images can be, but are not limited to the following:

- **Letterbox top/bottom black bars**: shown at the top and bottom of the TV screen when you watch a widescreen (16:9) movie on a standard (4:3) TV.
- **Side bar images**: solid bars shown on each side of an image when watching a standard (4:3) program on a widescreen (16:9) TV.
- **Stock-market report bars**: ticker running at the bottom of the TV screen.
- **Shopping channel logos & pricing displays**: bright graphics that are shown constantly or repeatedly in the same location.
- **Video game patterns and scoreboards**
- **Bright station logos**: moving or low-contrast graphics are less likely to cause uneven aging of the picture tubes.
- **On-line (internet) web sites**: or any other stationary or repetitive computer style images.

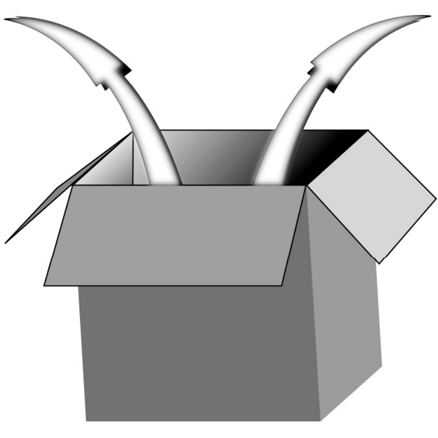
If you have questions regarding your television, call
Consumer Relations
at (800) 332-2119, or email us at
MDEAservice@bigscreen.mea.com

To order replacement or additional remote controls or owner's guides
call (800) 553-7278

or

visit our website at **www.mitsubishi-tv.com**

Part III



Setup

Programming the Remote Control:

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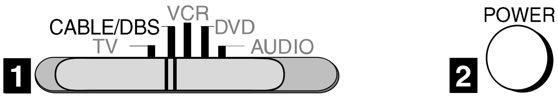
Programming the Remote Control: To Control Other A/V Products

To Program the Remote to Control Other Brands of Audio and Video Products:

(Figures 1-5)

1. Move the slide switch at the top of the remote to the product you want to control.
2. Press and hold the POWER button on the remote control.
3. Enter the first three digit code listed for your equipment, and then release the POWER button on the remote control.
4. Point the remote control at the equipment and press the POWER button. If the equipment responds, the remote control is properly programmed to operate the equipment. If the equipment does not respond, repeat steps 2-4 with the next three digit code listed in step 3 for your equipment.



3 Cable Box Codes

Cable box brand	Code to enter:
General Instruments	111, 119, 120, 121, 122,
Jerrold	123, 124, 125, 126, 127
Oak	102, 137, 139
Pioneer	101, 116
Scientific Atlanta	111, 112, 113
Zenith	100, 117

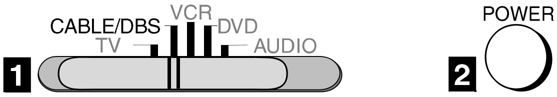
To reset to default code, enter 000

If your cable box code is not listed here, please see page 62 for a complete listing.

Figure 1. *Programming the remote to control your cable box.*

IMPORTANT

→ **If you cannot turn the cable box ON by pressing POWER, try pressing CHANNEL or the number buttons.**



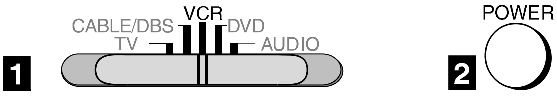
3 Satellite Receiver Codes

Satellite brand	Code to enter:
Mitsubishi - DBS	173
Dishnetwork	175
Hughes - DSS	173
RCA - DSS	176
Sony - DSS	177
Toshiba - DSS	170
Panasonic - DSS	174
Primestar	178

To reset to default code, enter 000

If your satellite receiver code is not listed here, please see page 62 for a complete listing.

Figure 2. *Programming the remote to control your satellite receiver.*



3 VCR Codes

VCR brand	Code to enter:
Mitsubishi	001, 002
Hitachi	020, 043, 065
JVC	030, 054, 059
Phillips / Magnivox	043, 044, 051
Panasonic	041, 042, 043
RCA	020, 053, 065
Sony	048, 049, 050
Toshiba	021, 066

To reset to default code, enter 000

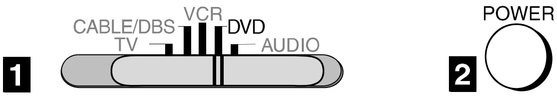
If your VCR code is not listed here, please see page 62 for a complete listing.

Figure 3. *Programming the remote to control your VCR.*

IMPORTANT

→ **When set to TV, the PLAY, STOP, REW/REV, and FF/FWD buttons will operate the VCR after the VCR codes have been properly programmed into the remote control.**

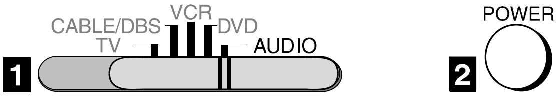
Programming the Remote Control: To Control Other A/V Products



3 DVD/LDP Player Codes

DVD/LDP brand	Code to enter:	
Mitsubishi (DVD)	003	If your DVD code is not listed here, please see page 62 for a complete listing.
Mitsubishi (LDP)	016, 017	
Panasonic	250	
Pioneer DVD (LDP)	252 (016, 017)	
Sony	254	
Toshiba	253	
To reset to default code, enter 000		

Figure 4. *Programming the remote to control your DVD/LDP.*



3 A/V Receiver Codes

Audio brand	Code to enter:	
Mitsubishi A/V receiver and/or CD player	Set M-VR1000 or M-VR800 to 015 Set M-VR900 or M-VR700 to 010	If your audio code is not listed here, please see page 62 for a complete listing.
Denon	234, 235, 236	
Kenwood	200, 208	
JVC	232, 233	
Onkyo	209, 214	
Pioneer	205, 207	
Sony	222	
Yamaha	201, 208	
To reset to default code, enter 000		

Figure 5. *Programming the remote to control your A/V receiver.*

After entering the correct codes for each position of the remote control, use the slide switch to select the product to control when an operational button is pressed. If you enter a code from the AUDIO chart while the slide switch is set to TV, the volume and mute functions change to match the A/V receiver. This is useful when using an A/V receiver with the TV all the time. In all other cases, only one of the below devices is allowed for each slide switch position.

TV position:

- ➡ TV
- ➡ A/V receiver (volume and mute only)

Cable/DBS position:

- ➡ Cable box
- ➡ Satellite receiver

VCR position:

- ➡ VCR

DVD position:

- ➡ DVD
- ➡ LD Player

Audio position:

- ➡ A/V receiver
- ➡ Mitsubishi CD player [If you have a Mitsubishi A/V receiver, the audio position may be used in conjunction with select Mitsubishi CD players. Your audio position must be programmed to either 010 or 011. Plug the CD player power cord into a switched outlet on the back of your A/V receiver. Pressing the POWER button will then turn on your A/V receiver, in turn, turning on your CD player. On select CD players, the transport controls (FF, Play, Rew, etc.) in the audio position will operate the CD player.]

IMPORTANT

- → **If the slide switch is set to TV when you enter an A/V receiver code, VOLUME and MUTE will control the A/V receiver rather than the TV. To return volume and mute control to the TV, set the slide switch to TV, press and hold POWER and enter 000.**

IMPORTANT

- → **Some manufacturers may change their products, or they may use more than one remote control system. If this is the case, your remote control may not be able to operate your VCR, DVD, cable box, satellite receiver, or A/V receiver.**

Programming the Remote Control:
To Activate the System 4 Home Theater IR Control

Models VS-60719 and VS-70709

Activation of the System 4 Home Theater IR Control

You can, with certian digital A/V receivers, set up the remote control to automatically select the correct audio input when you press the HOME THEATER button. At the same time, the TV will select the correct video input. This allows you to watch your best type of video (Component, S-Video) with your best type of audio (Dolby Digital, Pro Logic, etc.) conveniently. See *System 4 Home Theater IR Control*, page 20, for connection instructions.

Once properly activated, when the HOME THEATER button is pressed, System 4 Operates in 2 parts:

AUDIO Changes a compatible digital A/V receiver to the correct input for the device you wish to operate.

VIDEO Changes the TV to the correct input for the device you wish to operate.

Both functions can operate simultaneously with one touch of the HOME THEATER button. However, you may activate only one if you desire (video to control the TV or audio to control the A/V Receiver). The remote control must be programmed to the appropriate A/V Receiver code prior to the activation of the audio portion (see *To Program the Remote to Control Other Brands of Audio and Video Products*, page 24).

To Activate the Audio Portion:

1. Press and hold the HOME THEATER button.
2. Press and release the AUDIO button.

To Activate the Video Portion:

(Figure 1)

1. Press and hold the HOME THEATER button.
2. Press and release the VIDEO button.
3. Name the TV input as instructed.

1
HOME THEATER
2
VIDEO

3 Name TV Input as Shown Below (see pg 36 for naming help)

Device You Are Using	Name Input
Cable Box connected to ANT-A or ANT-B	Cannot be named
Cable Box connected to Inputs 1-3	CABLE
Satellite Receiver connected to any input	DBS
VCR connected to Inputs 1-3	VCR
DVD connected to Inputs 1-3	DVD

Figure 1. *Activating the video portion of System 4.*

Programming the Remote Control:
To Activate the System 4 Home Theater IR Control

Models VS-60719 and VS-70709

Testing System 4 for Proper Setup

1. Move the slide switch to the position you wish to test.
2. Point the remote at the TV.
3. Press and release the HOME THEATER button. If the audio portion has been properly setup, your A/V receiver will have changed to the appropriate input as indicated in table 1, page 15. If the video connection of your System 4 has been properly setup, your TV will have changed to the appropriate input.

AUDIO If the A/V Receiver did not change inputs...

1. Repeat *Special Setups*, page 15, and retest.
2. Reposition IR emitter(s) and retest
3. Repeat *To Activate the Audio Portion*, page 26, and retest.

➡ If your A/V receiver is still not responding to the commands from your remote control, you may have an incompatible A/V receiver. Proceed to *Deactivating the System 4 Home Theater IR Control*, on this page.

IMPORTANT

→ System 4 is designed for use with A/V receivers that have at least 4 inputs. A/V receivers with fewer may be only partially compatible.

AUDIO If the A/V Receiver changed to an input other than the one indicated in table 1, page 15...

1. Connect the audio output from your A/V device to the A/V receiver input that your A/V receiver DID change to, and retest.

VIDEO If the TV did not change inputs...

1. Repeat *To Activate the Video Portion*, page 26, and retest.

Deactivating the System 4 Home Theater IR Control

1. Simultaneously press the CANCEL button and the HOME THEATER button.

The ViewPoint® Menu System

Your TV has Mitsubishi's exclusive ViewPoint® on-screen operating system, which provides on-screen information for menu choices and changes (Figure 1).

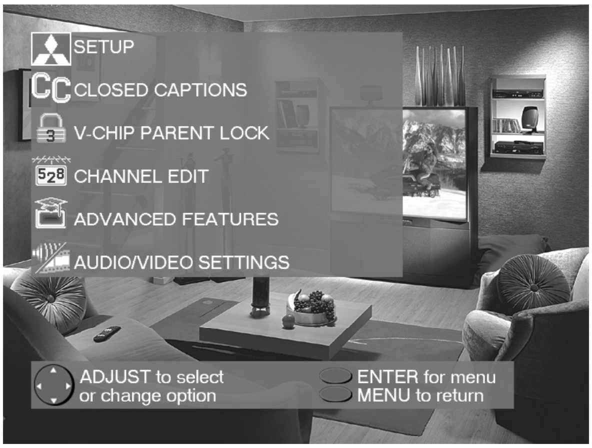
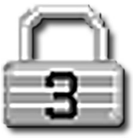
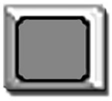

SETUP
CLOSED CAPTIONS
V-CHIP PARENT LOCK
CHANNEL EDIT
ADVANCED FEATURES
AUDIO/VIDEO SETTINGS
ADJUST to select or change option
ENTER for menu
MENU to return

Figure 1. *Main Menu: The Main Menu screen will always be the first screen that appears when you press the MENU button.*



A picture (icon) will be highlighted when selected with the ADJUST arrows. The icon indicates that a submenu can be displayed or an automatic function can be started by selecting the icon and pressing ENTER.



A square button indicates that your menu selections will be made on the current menu by selecting the square button and pressing ENTER.

The ViewPoint® system includes the following special features:

- The currently selected icon or button is highlighted with a yellow outline and the text color will be yellow.
- On-screen instructions provide complete menu choice information.
- Some on-screen menu options must be set before other options are available. For example, *"Set the Timer"* will only be possible if *"Clock Time"* and *"Set Day"* have been set.

The following buttons on your remote control will help you to navigate within the ViewPoint® system (Figure 2):

1 ADJUST ◀ or ▶ to select the menu item you want to change.
2 ADJUST ▲ or ▼ to change the settings.
3 ENTER to enter into a menu, start an automatic function, or select a checkbox.
4 CANCEL to clear a setting, or stop an automatic function.
5 MENU to move back one menu screen at a time.
6 HOME to exit all menus and return to TV viewing.

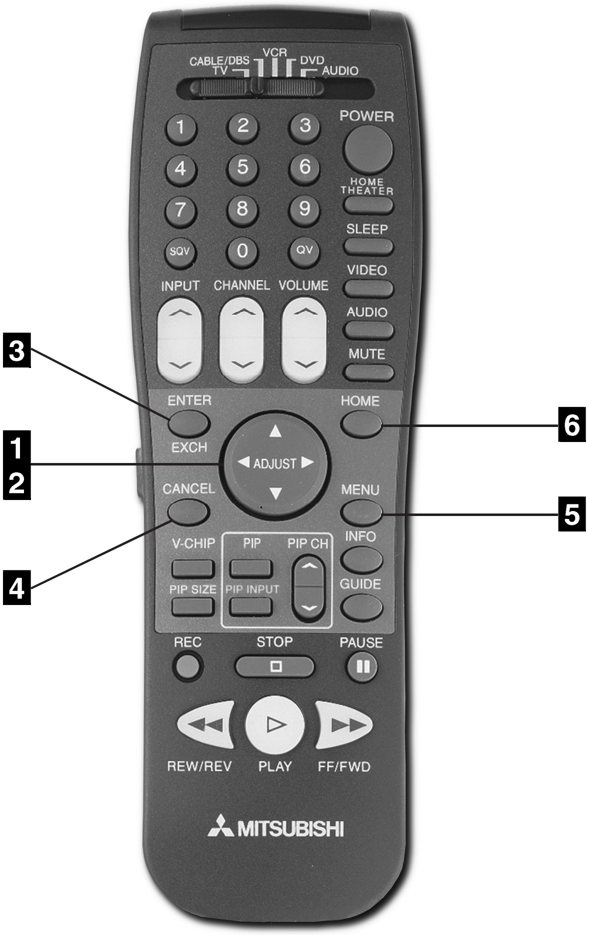
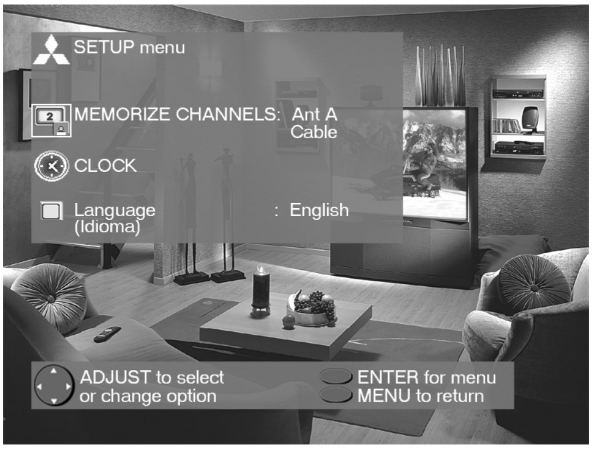

CABLE/DBS TV
VCR
DVD
AUDIO
POWER
1
2
3
4
5
6
7
8
9
0
SQV
QV
HOME THEATER
SLEEP
VIDEO
INPUT
CHANNEL
VOLUME
AUDIO
MUTE
ENTER
HOME
EXCH
ADJUST
CANCEL
MENU
V-CHIP
PIP
PIP CH
INFO
PIP SIZE
PIP INPUT
GUIDE
REC
STOP
PAUSE
REW/REV
PLAY
FF/FWD
MITSUBISHI
3
1
2
4
6
5

Figure 2. *These buttons are used for navigation within the ViewPoint® on-screen operating system.*

Menu Screens (Overview)



SETUP menu

MEMORIZE CHANNELS: Ant A
Cable

CLOCK

Language (Idioma) : English

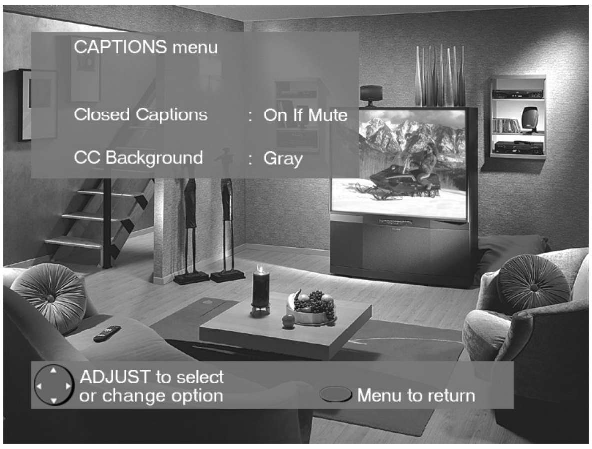
ADJUST to select
or change option
ENTER for menu
MENU to return

__Figure 1.__ Setup menu.

SETUP Menu

(Figure 1)

You can put channels in memory, enter the CLOCK submenu, and select the menu system to display in English or Spanish (Español).



CAPTIONS menu

Closed Captions : On If Mute

CC Background : Gray

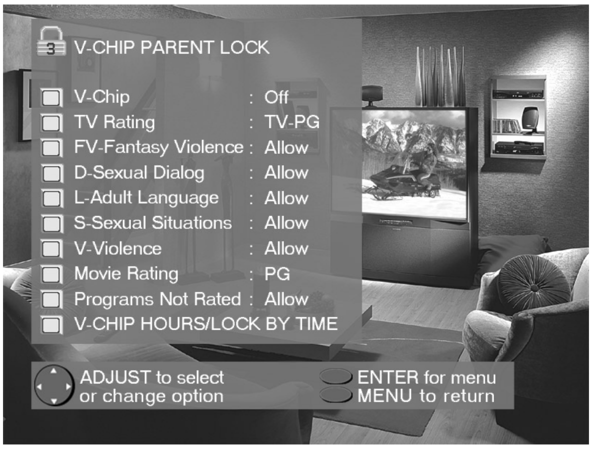
ADJUST to select
or change option
Menu to return

__Figure 2.__ Captions menu.

CAPTIONS Menu

(Figure 2)

Display captions or text, and choose black or gray as the background color for the closed caption area.



V-CHIP PARENT LOCK

V-Chip : Off
TV Rating : TV-PG
FV-Fantasy Violence : Allow
D-Sexual Dialog : Allow
L-Adult Language : Allow
S-Sexual Situations : Allow
V-Violence : Allow
Movie Rating : PG
Programs Not Rated : Allow
V-CHIP HOURS/LOCK BY TIME

ADJUST to select
or change option
ENTER for menu
MENU to return

__Figure 3.__ V-Chip Parent Lock menu.

V-CHIP PARENT LOCK Menu

(Figure 3)

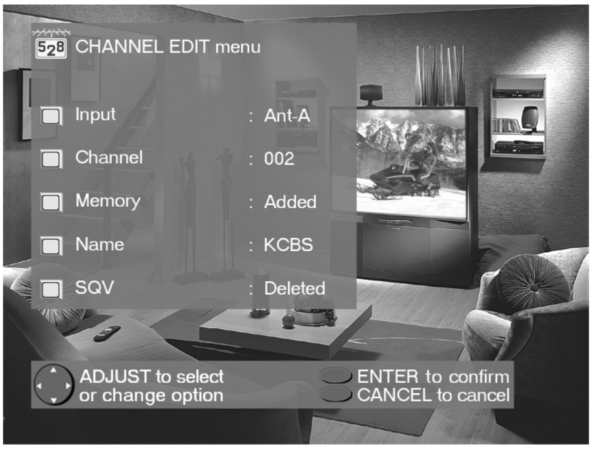
Block or allow programming based upon rating signals sent by the broadcast station, or by time.

Menu Screens (Overview)

CHANNEL EDIT Menu

(Figure 1)

Use to customize the channel information for Ant-A and Ant-B. Manually add or delete channels from memory, name channels for Ant-A and Ant-B, or add your favorite channels to the SQV (Super Quick View^{TM})list.


CHANNEL EDIT menu
ADJUST to select or change option
ENTER to confirm
CANCEL to cancel

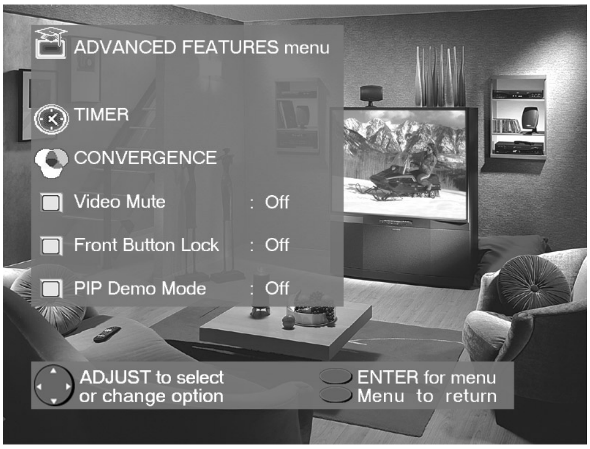
Input : Ant-A
Channel : 002
Memory : Added
Name : KCBS
SQV : Deleted

Figure 1. *Channel Edit menu.*

ADVANCED FEATURES Menu

(Figure 2)

Set your TV to turn on automatically, converge (align) the three main colors, display a blue screen when viewing an input with no signal, turn off the Front Panel Controls, and view the PIP Demo Mode.


ADVANCED FEATURES menu
TIMER
CONVERGENCE
ADJUST to select or change option
ENTER for menu
Menu to return

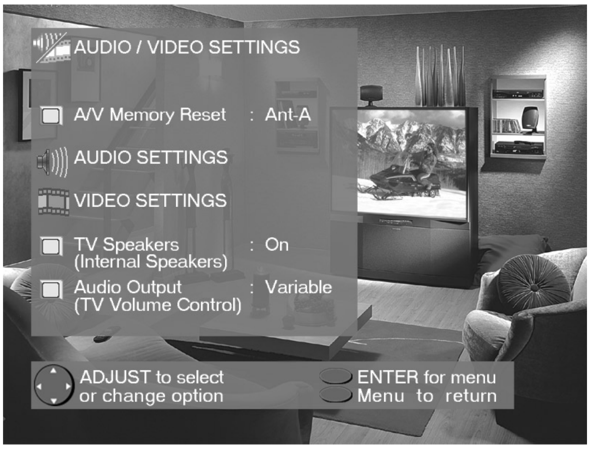
Video Mute : Off
Front Button Lock : Off
PIP Demo Mode : Off

Figure 2. *Advanced Features menu.*

AUDIO/VIDEO SETTINGS

(Figure 3)

Adjust some or all of the A/V settings. Each input can be set to your preferences. A/V Memory Reset on the menu allows you to return the A/V settings for the current input to the factory presets. A/V Reset on the front panel resets all inputs at once.


AUDIO / VIDEO SETTINGS
AUDIO SETTINGS
VIDEO SETTINGS
ADJUST to select or change option
ENTER for menu
Menu to return

A/V Memory Reset : Ant-A
TV Speakers (Internal Speakers) : On
Audio Output (TV Volume Control) : Variable

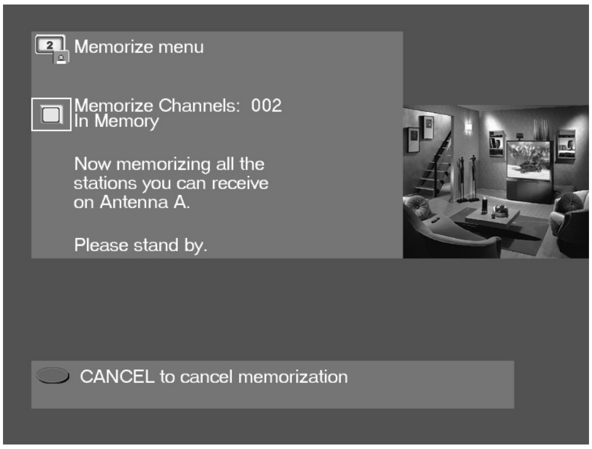
Figure 3. *Audio/Video menu.*

Setup Menu: Memorize Channels, Clock, and Language

Memorize Channels

(Figure 1)

This selection memorizes the channels your TV can receive and skips the unused or weak channels. You can stop memorization at any time by pressing CANCEL. Channels memorized prior to pressing CANCEL will stay in memory. After channels are memorized, you may select memorized channels in ascending or descending order by pressing the CHANNEL button on the remote control.


Memorize menu

Memorize Channels: 002 In Memory

Now memorizing all the stations you can receive on Antenna A.

Please stand by.

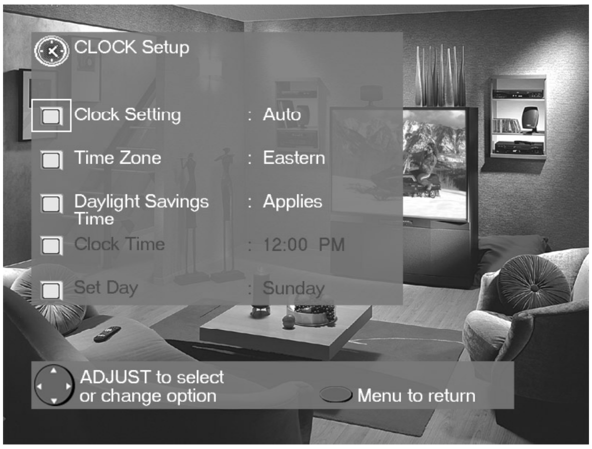
CANCEL to cancel memorization

Figure 1. *Memorize Channels menu.*

Clock Setup

(Figure 2)

Manually set the time for the TV, or select Auto and the TV will automatically set the time based upon Extended Data Service (XDS) time data. This time data is usually broadcast by your local PBS station.


CLOCK Setup

Clock Setting : Auto

Time Zone : Eastern

Daylight Savings Time : Applies

Clock Time : 12:00 PM

Set Day : Sunday

ADJUST to select or change option

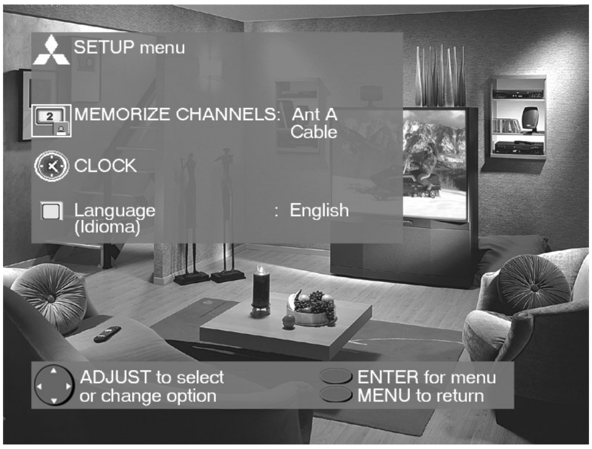
Menu to return

Figure 2. *Clock Setup menu.*

Language

(Figure 3)

Display the on-screen menus in either English or Spanish (Español). The first time your TV was powered on, you were requested to select an on-screen menu language. You may change your selection by pressing the ENTER button on the remote control.


SETUP menu

MEMORIZE CHANNELS: Ant A Cable

CLOCK

Language (Idioma) : English

ADJUST to select or change option

ENTER for menu

MENU to return

Figure 3. *Language menu.*

Captions Menu: Closed Captions

Captions Menu

(Figure 1)

Broadcasters can send either Standard or Text closed captioning. Standard closed captioning follows the dialogue of the characters on-screen and displays in a small section of the screen. Text closed captioning often contains information such as weather or news and covers a large portion of the on-screen program. Your TV can decode four different standard and four different text closed captioning signals from each TV station. However, each TV station may broadcast only one or two closed captioning signals, or none at all.

Within the Captions menu, you can turn on or off the closed caption decoder, select the type of captions or text, and choose black or translucent gray as the background color for the closed caption area.

Closed Captions

(Figure 1)

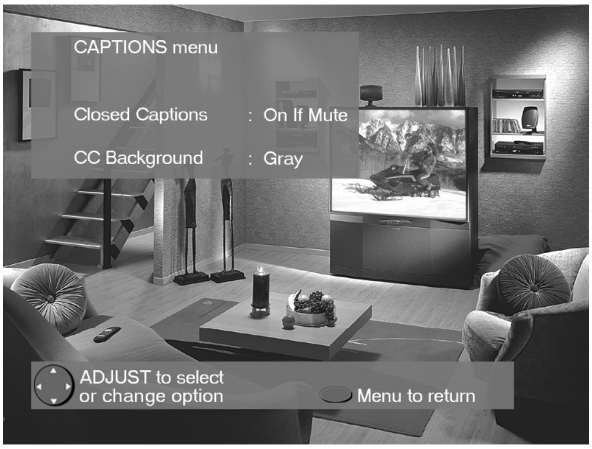
The TV can display one of the following:

- CC1, CC2, CC3, or CC4: Standard closed captioning signals.
- Text1, Text2, Text3, or Text4: Text closed captioning signals.
- On if mute: Closed captions when mute. When selected, the standard closed captioning signal (CC1) will turn on/off by pressing the MUTE button on the TV remote control.
- Off: No closed captions.

CC Background

(Figure 1)

To make the closed captions easier to read, you can choose to display the background color as either black or translucent gray.



CAPTIONS menu

Closed Captions : On If Mute

CC Background : Gray

ADJUST to select or change option

Menu to return

Figure 1. *Captions menu.*

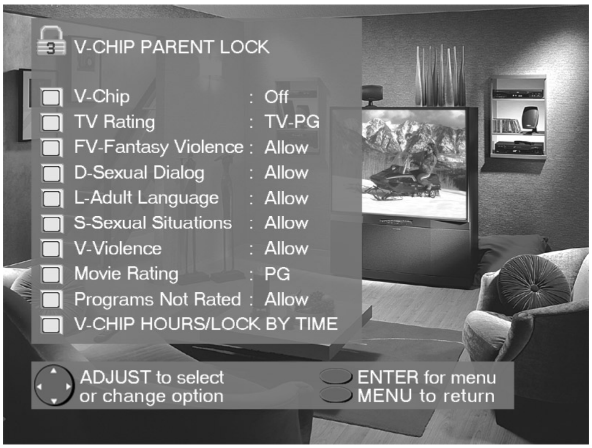
IMPORTANT

→ When Text closed captioning is selected, a large black or gray box will appear on your TV screen if no signal is broadcast.

IMPORTANT

→ The content of captions is determined by the broadcaster. If your captions show strange characters, misspellings, or odd grammar, it is not a malfunction of the TV.

V-Chip Parent Lock Menu: V-Chip Lock



V-CHIP PARENT LOCK

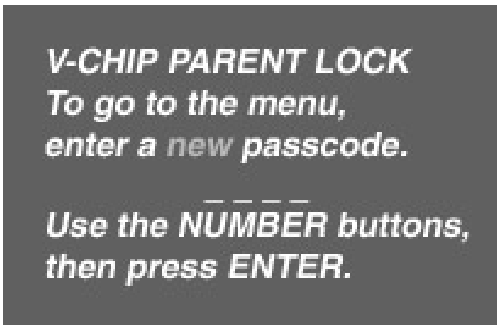
☐ V-Chip : Off
☐ TV Rating : TV-PG
☐ FV-Fantasy Violence : Allow
☐ D-Sexual Dialog : Allow
☐ L-Adult Language : Allow
☐ S-Sexual Situations : Allow
☐ V-Violence : Allow
☐ Movie Rating : PG
☐ Programs Not Rated : Allow
☐ V-CHIP HOURS/LOCK BY TIME

Figure 1. *V-Chip Lock menu.*

V-Chip Lock

(Figure 1)

The V-Chip Lock allows you to Block or Allow programs based upon rating signals sent by the broadcasting station. The TV comes from the factory with the V-Chip lock in the Off setting. You can turn the lock On within the V-Chip Menu. The factory preset is TV-PG, allowing only programs rated TV-PG or lower. You can change the blocking level to various TV or movie ratings, lettered categories, and by time. After changing channels or inputs, there may be up to a 5 second delay before the V-Chip lock takes effect. The V-CHIP button on the remote control enables you to conveniently turn the lock on or off.



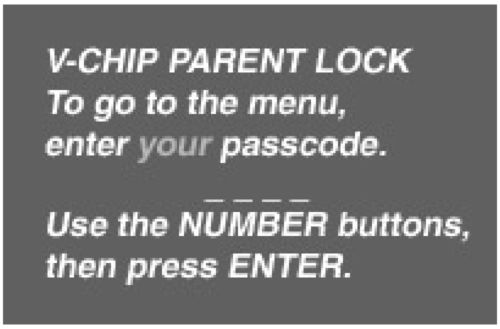
V-CHIP PARENT LOCK
To go to the menu,
enter a new passcode.
_ _ _ _
Use the NUMBER buttons,
then press ENTER.

Figure 2. *V-Chip Lock passcode screen (first-time entry)*

Entry to the V-Chip Lock

(Figures 2)

The first time you select V-Chip Lock from the MAIN menu, press the V-CHIP button on the remote control, or after you have canceled your passcode you will see the screen shown in figure 2. Use the number buttons on the remote control to input a four-digit passcode, then press ENTER. You can delete a character and move back one space by pressing CANCEL. You can exit without inputting a passcode by pressing MENU or HOME. The next time you select V-Chip Lock from the MAIN menu, or press the V-CHIP button on the remote control, you will see a menu screen similar to the one in figure 3.



V-CHIP PARENT LOCK
To go to the menu,
enter your passcode.
_ _ _ _
Use the NUMBER buttons,
then press ENTER.

Figure 3. *V-Chip Lock passcode screen (re-entry)*

IMPORTANT

➞ **If you forget your four-digit passcode, see *Appendix A*, page 55.**

V-Chip Parent Lock Menu: V-Chip Lock

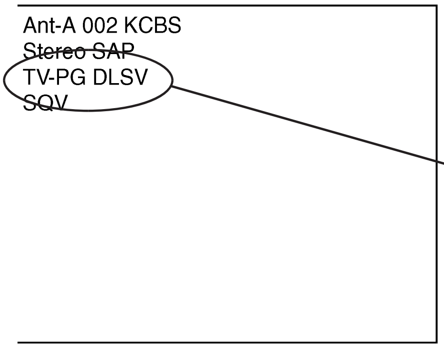


Figure 1. V-Chip signal information.

V-Chip Signal Information

(Figure 1)

When provided by the broadcaster, V-Chip signal information can be displayed by pressing the INFO button on the remote control. Rating guidelines are provided by broadcast stations. TV programs and made-for-TV movies can be blocked by the TV Rating and/or Categories signal. Made-for-theater and direct-to-video movies can be blocked by the Movie Rating signal.

IMPORTANT

→ **If no V-Chip rating and/or category signal is sent from the broadcaster, no rating information will be displayed, and the V-Chip Lock will not be able to block the program or movie.**

TV Ratings and Descriptions	**TV-Y**	**TV-Y7**	**TV-G**	**TV-PG**	**TV-14**	**TV-MA**
	Youth	Youth 7+ Years	General Audience	Parental Guidence	14+ Years	Mature Audience

Table 1. V-Chip rating information that may be included with TV programs and made-for-TV movies. If you set the lock to TV-G; TV-Y, TV-Y7, and TV-G will be available, and TV-PG, TV-14, and TV-MA will be blocked.

TV Categories and Descriptions		**FV**	**D**	**L**	**S**	**V**
	Program Not Rated	Fantasy Violence	Sexual Dialog	Adult Language	Sexual Situations	Violence

Table 2. V-Chip category information that may be included with TV programs and made-for-TV movies. If you set the category L to be blocked; all programing carrying the L signal will be blocked (regardless of it's TV rating).

Movie Ratings and Descriptions	**OFF**	**G**	**PG**	**PG-13**	**R**	**NC-17**	**X**
	V-Chip is off	General Audience	Parental Guidance	13+ Years	Restricted	18+ Years	Adult

Table 3. V-Chip rating information that may be included with made-for-theater and direct-to-video movies. If you set the lock for PG-13; G, PG, and PG-13 will be available, and R, NC-17, and X will be blocked.

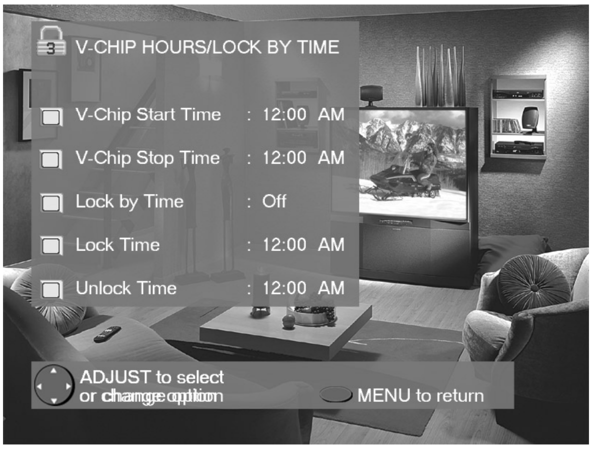
IMPORTANT

→ **Video tapes, laser discs, and DVD's may not contain the special V-Chip rating signals. If this occurs, the V-Chip Lock will not be able to block the program or movie.**

IMPORTANT

→ **"Programs Not Rated" is a V-Chip catagory that applies to broadcasted programming such as news, weather, or emergency programs. Please use care when blocking this category.**

V-Chip Parent Lock Menu: V-Chip Hours/Lock By Time



V-CHIP HOURS/LOCK BY TIME

☐ V-Chip Start Time : 12:00 AM
☐ V-Chip Stop Time : 12:00 AM
☐ Lock by Time : Off
☐ Lock Time : 12:00 AM
☐ Unlock Time : 12:00 AM

Figure 1. *V-Chip Hours/Lock By Time menu.*

V-Chip Hours/Lock By Time

(Figure 1)

V-CHIP HOURS/LOCK BY TIME will allow you to activate the V-Chip or lock the entire TV during specific hours.

V-Chip Start Time and V-Chip Stop Time

(Figure 1)

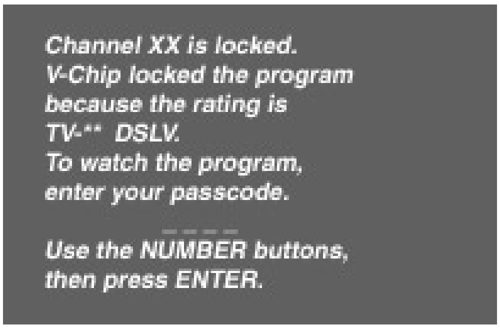
Select the times you would like the V-Chip to be Active. By setting the V-Chip Start Time and V-Chip Stop Time to the same time, the V-Chip will be active 24 hours a day.

Press ▲ or ▼ to slowly adjust the time. Press and hold ▲ or ▼ to quickly adjust the time.

Lock by Time, Lock Time, and Unlock Time

(Figure 1)

Lock by Time locks the entire TV based upon the Lock Time and Unlock Time. You must input your 4-digit passcode to use the TV when it is locked. By setting the Lock Time and Unlock Time to the same time, the Lock by Time will be active 24 hours a day.



Channel XX is locked.
V-Chip locked the program
because the rating is
*TV-** DSLV.*
To watch the program,
enter your passcode.

— — — —

Use the NUMBER buttons,
then press ENTER.

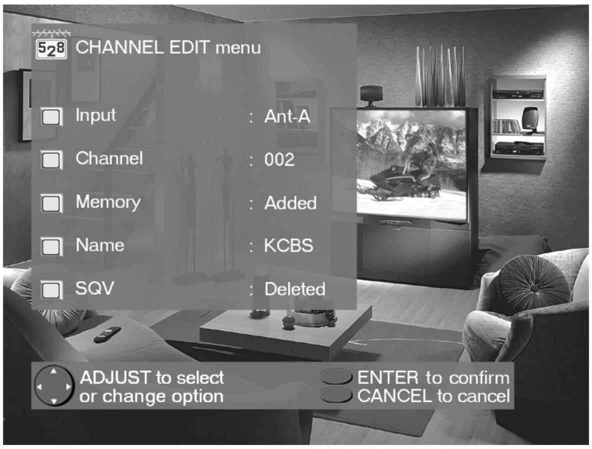
Figure 2. *V-Chip Lock unlock passcode screen.*

Unlock Passcode Screen

(Figure 2)

To view a V-Chip blocked program or to watch the TV during a scheduled lock time, you must enter your 4-digit passcode. The V-Chip block and Lock by Time will remain disabled until the TV is powered off and then on again.

Channel Edit Menu:Input, Channel, Memory, Name and SQV™



CHANNEL EDIT menu

Input : Ant-A
Channel : 002
Memory : Added
Name : KCBS
SQV : Deleted

ADJUST to select or change option
ENTER to confirm
CANCEL to cancel

Figure 1. *Channel Edit menu.*

Input

(Figure 1)

Select Ant-A, Ant-B, or Inputs 1-3. For Ant-A and Ant-B, you can add or delete channels in memory, name channels, and add channels to the SQV (Super Quick View™) list. For Inputs 1-3, you can rename the input.

Channel

(Figure 1)

Select the channel you want to add or delete from memory, name, or add to the SQV Super Quick View™ list.

Memory

(Figure 1)

After all available channels have been memorized with *Memorize Channels*, page 31, weaker channels viewed with Ant-A or Ant-B can be added and unwanted channels can be deleted.

Use the CHANNEL button on the remote control to view memorized channels.

Name

(Figure 1)

Channels shown on Ant-A or Ant-B can be given names (up to four characters). After you enter a name, it will appear on the TV screen, next to the channel number. Inputs 1-3 can be renamed by scrolling through the following list: Audio, AUX, Cable, CAM(camcorder), DBS, DVD, Game, Laser, Surv (surveillance, or security), S-VHS, VCR, VCR2, VHS, or Off.

SQV (Super Quick View™)

Using The Menu Screen

(Figure 1)

SQV (Super Quick View™) allows you to put together a list of your favorite channels from Ant-A and Ant-B. You can quickly look through the list using the SQV button. Once you have added a channel to the SQV memory, “SQV” will appear under the channel number any time the channel number is displayed on the TV screen.

SQV (Super Quick View™)

Using The Remote Control

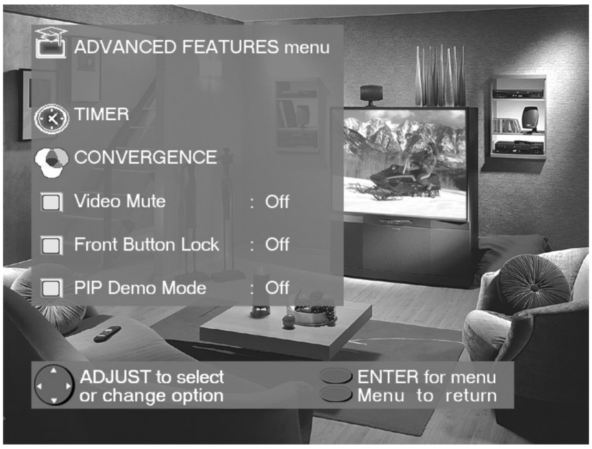
Adding SQV channels using the remote control:

1. Use the CHANNEL or number buttons to select the channel you want to add to add to the list.
2. Press and hold the SQV button for about 3 seconds. The letters “SQV” will appear under the channel number, indicating that the channel has been added to the Super Quick View™ memory.

Removing SQV channels using the remote control:

1. Press the SQV button repeatedly to select the channel to be removed from the list.
2. While the channel number and SQV indicator are still displayed on the screen, press the CANCEL button. If the CANCEL button is not pressed before the SQV indicator disappears, the channel will not be removed.
3. When the SQV indicator disappears, the channel has successfully been removed.

Advanced Features Menu: Timer



ADVANCED FEATURES menu

TIMER

CONVERGENCE

Video Mute : Off

Front Button Lock : Off

PIP Demo Mode : Off

Figure 1. *Advanced Features menu.*

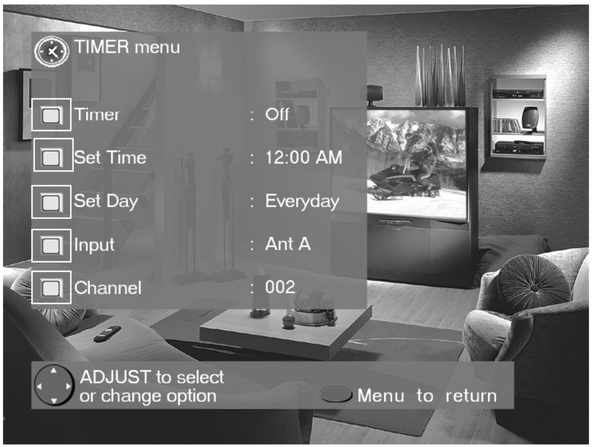
Timer

(Figure 1)

The timer will automatically turn the TV on (if it is off) at the time you schedule and select.

IMPORTANT

→ **The TV's clock must be set before you can set the timer. If you have not set the clock and/or day, you will see the CLOCK menu instead of the Timer menu.**



TIMER menu

Timer : Off

Set Time : 12:00 AM

Set Day : Everyday

Input : Ant A

Channel : 002

Figure 2. *Timer menu.*

Timer Menu

(Figure 2)

The timer can be turned On or Off. When On, you need to select the time to turn on, the day to turn on, and the channel to display. At your preselected time, the timer will turn the TV on, and a message will be displayed, “Press a key for the TV to stay on”. Any button on the remote control must be pressed within 5 minutes, or the TV will turn itself off.

Set Time

Select the hour and minute, including AM or PM, when the TV is to turn on.

Press ▲ or ▼ to slowly adjust the time. Press and hold ▲ or ▼ to quickly adjust the time.

Set Day

Select the days that the TV will turn on automatically. You can select Everyday, Mon-Fri (Monday through Friday), or the individual days of the week.

Input

Select the input to use when the timer turns on the TV. If the TV is already on, the timer will turn the TV to this selected input.

Channel

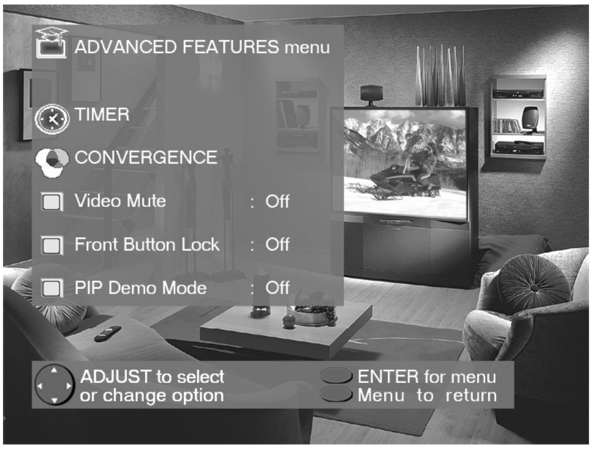
When Ant-A or Ant-B is the selected input, you may select any memorized channel. The TV will tune to this channel when the timer turns it on.

Advanced Features Menu: Convergence

Convergence

(Figure 1)

Your Mitsubishi TV has three picture tubes which are aligned to properly converge the projected light beams on the screen. Each picture tube projects a single color of red, blue or green. During production, your TV was carefully adjusted to properly align these colors. As a special feature, you have the ability to adjust the red and blue light beams in reference to the fixed green light beam. This process is called convergence.



ADVANCED FEATURES menu

TIMER

CONVERGENCE

Video Mute : Off

Front Button Lock : Off

PIP Demo Mode : Off

ADJUST to select or change option

ENTER for menu

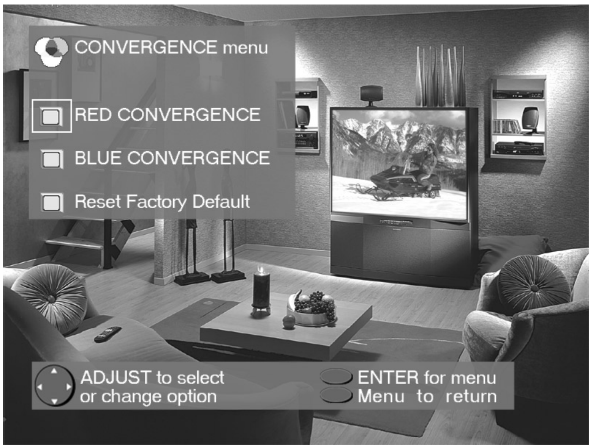
Menu to return

Figure 1. *Advanced Features menu.*

Convergence Menu

(Figure 2)

Convergence aligns the entire screen at once. Select either Red Convergence or Blue Convergence to begin alignment. To align 64 individual points, see *Advanced Convergence*, page 39.



CONVERGENCE menu

RED CONVERGENCE

BLUE CONVERGENCE

Reset Factory Default

ADJUST to select or change option

ENTER for menu

Menu to return

Figure 2. *Convergence menu.*

Reset Factory Defaults

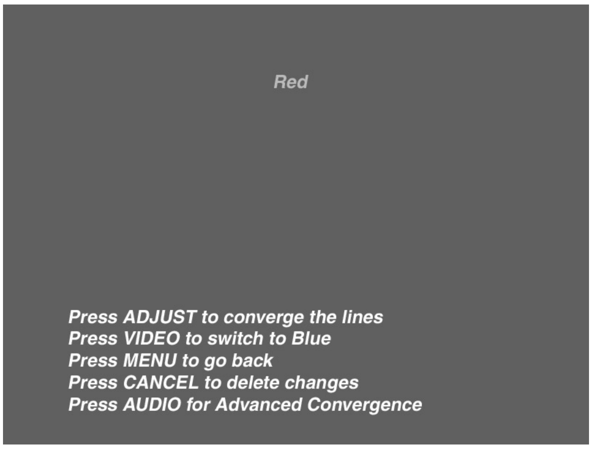
(Figure 2)

This allows you to reset the convergence to the factory settings. The message “Convergence Reset Completed” will be displayed when the factory defaults have been

Convergence Screen

(Figure 3)

When the Red and Blue crosshairs are properly converged, the center-screen crosshairs will appear white. You can use ▲, ▼, ◀, or ▶ to move the Red and Blue crosshairs. Press VIDEO to switch between Red and Blue. Press AUDIO for the Advanced Convergence screen, and see *Advanced Convergence*, page 39, for instructions.



Red

Press ADJUST to converge the lines
Press VIDEO to switch to Blue
Press MENU to go back
Press CANCEL to delete changes
Press AUDIO for Advanced Convergence

Figure 3. *Convergence screen.*

Advanced Features Menu: Advanced Convergence and Special Features

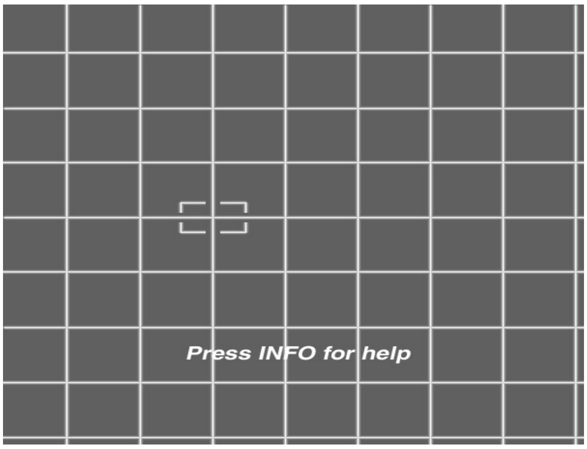
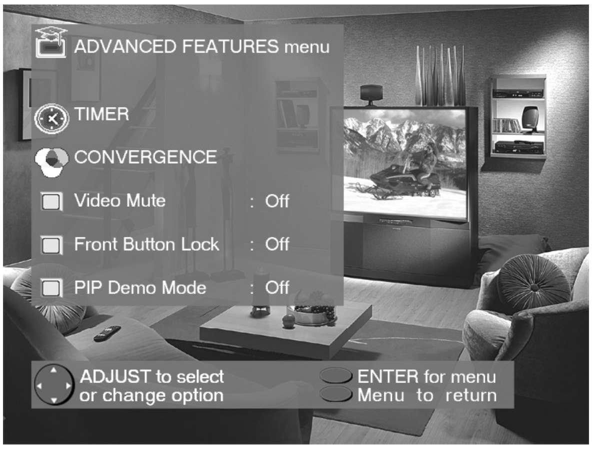


Figure 1. Advanced Convergence screen.

IMPORTANT

➞ There are more than 64 line intersections, but the flashing bracket will only stop at the 64 adjustment points.



Video Mute : Off
Front Button Lock : Off
PIP Demo Mode : Off

Figure 2. Advanced Features menu.

IMPORTANT

➞ The Front Button Lock can be disabled from the Front Control Panel by depressing the MENU button for 8 seconds. When successful, the message "Front Button Lock Disabled" will display on the screen.

Advanced Convergence

(Figure 1)

After adjusting the Red Convergence and Blue Convergence, you can fine-tune your TV by adjusting the Red and Blue convergence at 64 individual points. Move the flashing bracket to a position needing adjustment by pressing ▲, ▼, ◀, or ▶. Press ENTER to select the position (flashing will stop). Move the Red or Blue line by pressing ▲, ▼, ◀, or ▶. Press VIDEO to switch between the Red and Blue lines. A position is properly converged when all three lines combine to appear white. Press ENTER to deselect the position (flashing will resume), and move the brackets to the next position needing adjustment. When completed, press MENU to save your changes, and exit the Advanced Convergence screen.

Video Mute

(Figure 2)

Video Mute lets you display a blue or black background when no signal is being received on inputs 1-4.

Front Button Lock

(Figure 2)

Front Button Lock lets you disable keys on the front panel to prevent access to TV functions from the front panel.

PIP Demo Mode

(Figure 2)

PIP Demo Mode will demonstrate for you the capabilities of your TV's Picture-In-Picture feature. When set to ON, the TV will cycle through the available PIP formats, wait 2 minutes showing only the main picture, then cycle again. You can stop the PIP demo at any time by pressing the HOME button.

Audio/Video Settings Menu: AV Memory Reset, and Audio/Video Settings

AUDIO/VIDEO SETTINGS menu

(Figure 1)

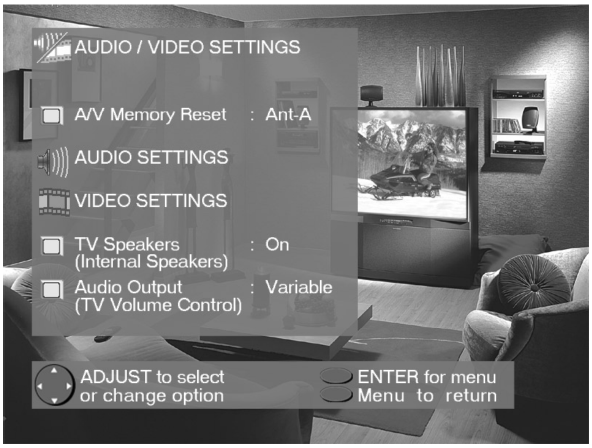
Each of the television's inputs has its own A/V memory. You can adjust each input's A/V memory in two ways. You can use the menu, or the remote control.

A/V Memory Reset

A/V Memory Reset will return the currently selected input's A/V memory to the factory settings. To reset an input's A/V memory, move to A/V Memory Reset, select the input you want to reset, and press ENTER.

AUDIO SETTINGS and VIDEO SETTINGS

After selecting AUDIO SETTINGS or VIDEO SETTINGS, you can adjust the settings by pressing ▲, ▼, ◀, or ▶. For descriptions of the individual A/V settings see *A/V Setting Descriptions*, pages 42-43.



AUDIO / VIDEO SETTINGS

A/V Memory Reset : Ant-A

AUDIO SETTINGS

VIDEO SETTINGS

TV Speakers (Internal Speakers) : On

Audio Output (TV Volume Control) : Variable

ADJUST to select or change option

ENTER for menu

Menu to return

Figure 1. *Audio/Video Settings menu.*

Using the AUDIO and VIDEO Buttons on the Remote Control

(Figure 2)

1 Press AUDIO or VIDEO to cycle through the available settings.

2 Press ◀ or ▶ to adjust the setting. After 5 seconds of inactivity, the setting display will disappear.

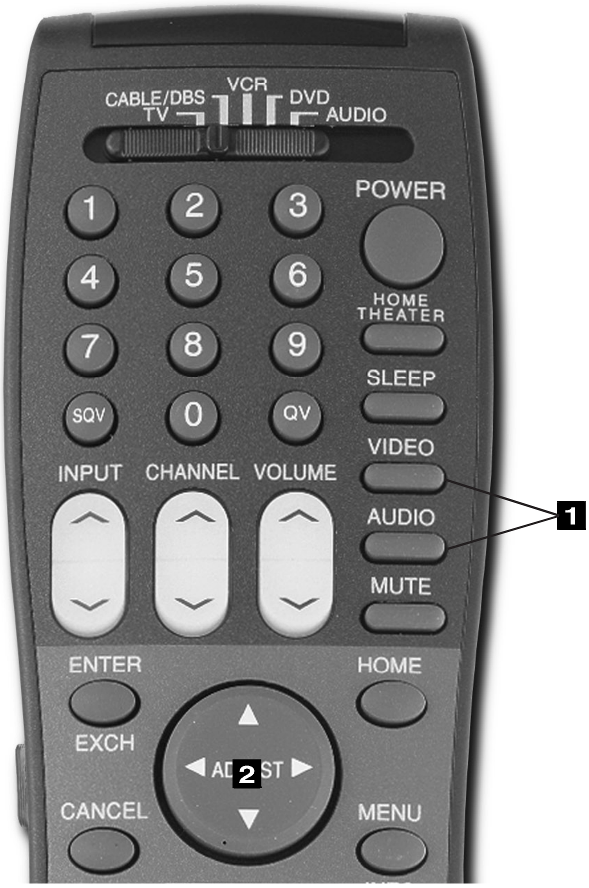
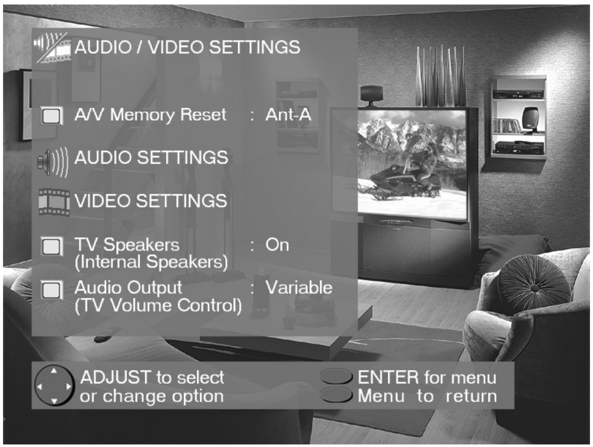

CABLE/DBS
TV
VCR
DVD
AUDIO
POWER
1
2
3
4
5
6
7
8
9
SQV
0
QV
HOME THEATER
SLEEP
VIDEO
AUDIO
MUTE
INPUT
CHANNEL
VOLUME
1
ENTER
EXCH
CANCEL
HOME
MENU
ADJUST
2

Figure 2. *The AUDIO, VIDEO, and ADJUST buttons.*

Audio/Video Settings Menu: TV Speakers, and Audio Output



AUDIO / VIDEO SETTINGS

A/V Memory Reset : Ant-A

AUDIO SETTINGS

VIDEO SETTINGS

TV Speakers (Internal Speakers) : On

Audio Output (TV Volume Control) : Variable

ADJUST to select or change option

ENTER for menu Menu to return

Figure 1. *Audio/Video Settings menu.*

TV Speakers

(Figure 1)

This selection will turn on or off the TV's internal speakers. You may select Off when sending the sound through a separate stereo system or surround sound A/V receiver.

IMPORTANT

➞ **To prevent damage from a sudden increase in volume, make sure the TV volume is low before choosing ON.**

Audio Output

(Figure 1)

Select Fixed if your audio receiver or stereo system can be controlled with a remote. This allows you to adjust the volume with the system's remote control or the TV remote control, if compatible. This setting is better for surround sound receivers. Select Variable if your audio receiver or stereo system cannot be controlled with a remote. This allows the TV's internal circiutry to adjust the volume.

A/V Setting Descriptions: Audio

Audio Settings

- **Bass** enhances or reduces low frequency sound.
- **Treble** enhances or reduces high frequency sound.
- **Balance** adjusts the level of sound between the left and right speakers.
- **Surround** creates simulated stereo and surround effects. Your choices are:
  - **Off**: No surround effects. Use this setting when using an A/V receiver with Dolby™ Pro Logic Surround, or Dolby™ Digital Surround.
  - **Simulated Stereo**: Your TV will create a simulated stereo effect when watching a non-stereo program.
  - **Surround Sound**: Your TV will create a simulated surround effect when watching a stereo program.
- **Listen to** (for Ant-A and Ant-B) determines how your TV will receive a broadcast audio signal and play back the sound you hear. Your choices are:
  - **Stereo**: Default setting. The TV will play stereo broadcasts in stereo and mono broadcasts in mono. The word “Stereo” will be displayed when you tune to a channel broadcasting stereo.
  - **SAP (Second Audio Program)**: Additional monaural soundtrack that you cannot hear during normal TV viewing. The SAP signal might be related to the program you are watching, such as a soundtrack in a foreign language, or unrelated to the program you are watching, such as a weather report. If a SAP signal is broadcast, the letters “SAP” will be displayed when you tune to the channel.
  - **Mono**: Reduces background noise, and should be used when receiving a weak stereo audio signal. All audio will be played mono with this setting.
- **Listen to** (for INPUTs) is not available.
- **Level Sound** automatically equalizes the volume level of programs containing significant level differences from one segment to another (for example, regular Programming to commercials). To receive the best fidelity with music programs, you can turn this setting to Off.

A/V Setting Descriptions: Video

Video Settings

- **Contrast** provides a slider to adjust the white-to-black level. Low contrast shows a variety of shades in darker images, while high contrast shows darker images more uniformly black and makes colors appear more vibrant.
- **Brightness** provides a slider to adjust the overall brightness of the picture.
- **Sharpness** provides a slider to adjust the detail and clarity.
- **Tint** provides a slider to adjust the proportion of red to green.
- **Color** provides a slider to adjust the color intensity.
- **Color Temp** (Color Temperature) allows you to adjust how white images are displayed. Your choices are:
  - **Low 6500K** or **Low**: White images will have a warm cast to them. This adjustment is an average and can vary due to ambient room lighting, video scene brightness and the TV's age. The Low 6500K represents the 6500K industry standard for NTSC pictures.
  - **Medium**: White images will be balanced between the Low (warm) and High (cool) settings.
  - **High**: White images will have a cool cast to them. This setting may provide the most realistic picture under bright lighting.
- **Video NR** (Video Noise Reduction) adjusts the picture noise. When Video NR is ON, you will notice a reduction of video noise and a coresponding reduction in the sparpness of detail. Video NR can improve the appearance of a low quality picture due to a poor signal or older VHS tapes. When Video NR is OFF, there is no change the video noise levels.

Ever wish you were actually part of the movie or sitting in a field-level box at the 50-yard line, watching the game? The Mitsubishi total home theater system is the next best thing to being there. A home theater immerses you in both video and audio to a point of surrealism. The core of the home theater system is your bigscreen television, the biggest one your room can accommodate.

Part IV

CABLE/DBS
VCR
DVD
AUDIO
POWER
HOME THEATER
SLEEP
VIDEO
AUDIO
MUTE
HOME
MENU
INFO
GUIDE
PAUSE
INPUT
CHANNEL
VOLUME
ENTER
EXCH
CANCEL
ADJUST
V-CHIP
PIP
PIP CH
REC
STOP
REW/REV

Operation

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Channel Selection........................48

Sleep Timer 48

System 4 Home Theater
IR Control VS-60719 & VS-70709 49

Special Functions.......................54

Operation of PIP................... 50-51

IMPORTANT NOTES.......................52

Remote Control Functions: Overview

Overview

(Following page, figure 1)

1. **Slide Switch**: Select A/V product to be controlled by the remote control.
2. **Numbers**: Individually select channels or input information into TV.
3. **POWER**: Turns power on and off for TV and other A/V products.
4. **SQV (Super Quick View™)**: Scan through a memorized list of favorite channels.
5. **QV (Quick View™)**: Switch to last channel viewed.
6. **HOME THEATER**: (VS-60719 and VS-70709 ONLY) Enables the Home Theater IR System. Once enabled, a press of this key, when in the VCR, DVD, or CableDBS layer, will properly switch the inputs of the AV receiver and the TV so the audio and video automatically coincide.
7. **SLEEP**: Set the TV to turn off within 2 hours. See *Sleep Timer*, page 48, for setup instructions.
8. **VIDEO**: Select the video settings.
9. **AUDIO**: Select the audio settings.
10. **MUTE**: Turn sound on or off.
11. **INPUT**: Select the signal to view (Ant-A, Ant-B, Input-1, Input-2, Input-3, or Component).
12. **CHANNEL**: Scroll up or down through memorized channels.
13. **VOLUME**: Change sound level.
14. **ENTER/EXCH**: Select a channel number or menu item. Exchange PIP and main TV picture.
15. **HOME**: Exit on-screen menus and return to TV viewing.
16. **ADJUST**: Navigate menus, change settings, and move the PIP on-screen location.
17. **CANCEL**: Clear SQV and some menu entries.
18. **MENU**: Display ▸ViewPoint® on-screen menu system.
19. **INFO**: Display on-screen summary of the current input used and any broadcast information available (including current V-Chip information).
20. **GUIDE**: When the slide switch is set to CABLE/DBS, display the on-screen program guide (some cable boxes and DBS receivers).
21. **V-CHIP**: Enable/Disable the V-Chip Lock.
22. **PIP SIZE**: Cycle through all available sizes of the PIP feature.
23. **PIP INPUT**: Select the PIP input source.
24. **PIP**: Cycle through PIP display choices.
25. **PIP CH**: Scroll up or down through memorized channels in PIP.
26. **REC**: Manually record with your VCR.
27. **STOP**: Stop your VCR, DVD, or CD.
28. **PAUSE**: Pause your VCR, DVD, CD, or freeze the PIP or POP image.
29. **REW/REV**: Rewind or reverse search with your VCR, reverse scan with your DVD, or skip reverse with your CD.
30. **PLAY**: Play your VCR, DVD, or CD.
31. **FF/FWD**: Fast forward or forward search with your VCR, fast play with your DVD, or skip forward with your CD.

Remote Control Functions: Care and Operation

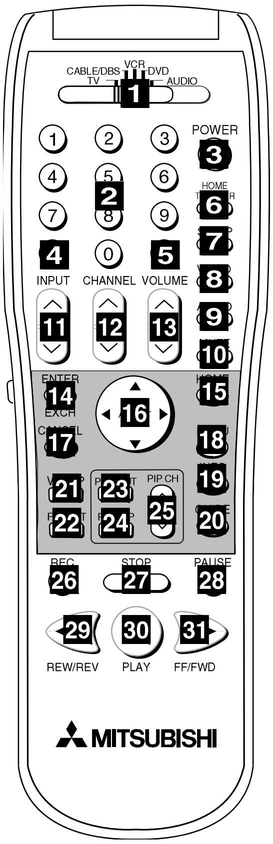

CABLE/DBS
VCR
DVD
TV
AUDIO
1
POWER
3
HOME
2
6
7
4
5
8
INPUT
CHANNEL
VOLUME
9
11
12
13
10
ENTER
14
EXCH
16
15
CANCEL
17
18
PIP CH
21
23
19
22
24
25
20
REC
STOP
PAUSE
26
27
28
29
30
31
REW/REV
PLAY
FF/FWD
MITSUBISHI

Figure 1. *The remote control functions.*

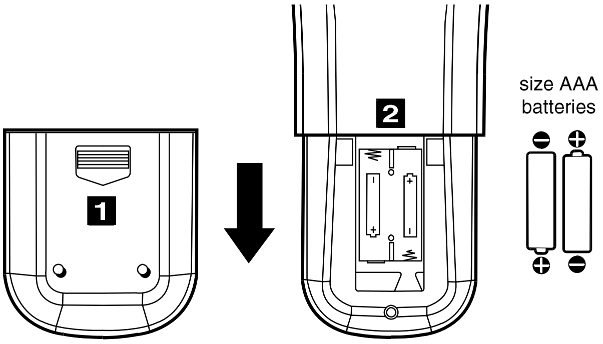

1
2
size AAA batteries

Figure 2. *Installing the batteries.*

IMPORTANT

→ **The remote control may return to its initial setting when the batteries are changed. You may need to reprogram.**

Operation

Installing the Batteries:

(Figure 2)

1. Remove the remote control's back cover by gently pressing the ridged tab in the direction of the arrow and sliding off the cover.
2. Load the batteries, making sure the polarities (+) and (-) are correct.

For Best Results from the Remote Control:

- Be within 20 feet of the equipment.
- Do not press two or more buttons at the same time unless instructed otherwise.
- Do not allow to get wet or become heated.
- Avoid dropping on hard surfaces.
- Do not use harsh chemicals to clean. Use only a soft, lightly moistened cloth.
- Do not mix new and old batteries.
- Do not heat, take apart, or throw batteries into fire.
- Use only AAA batteries.

Operating the Remote Control:

You can use the remote to control the TV, CABLE/DBS, VCR, DVD, and AUDIO products. Select the product you want to control by moving the slide switch (1 of Figure 1) to the appropriate position. The remote control has been preset to operate the TV and other Mitsubishi products. To program the remote control to operate other products, see *Use of the Remote Control with Other A/V Products*, pages 24-25.

Remote Control Functions: Channel Selection and Sleep Timer

Channel Selection

- Enter three numbers (for channel 2, press 002).

or

- Press the channel number and ENTER (for channel 2, press 2, then ENTER).

or

- Enter the channel number and wait four seconds. The TV will change automatically.

Sleep Timer

Setting the Sleep Timer:

- Press SLEEP on the remote control.
- A message indicating the length of time the sleep timer is to be set for is displayed on the TV screen.
- Each press of SLEEP will increase the time displayed by 30 minutes, until the maximum value of 120 minutes is reached.
- After 5 seconds of inactivity, the message will disappear.
- Press SLEEP to view the remaining time before the timer turns the TV off.

Canceling the Sleep Timer:

- Press SLEEP to display the on-screen message.
- Press SLEEP repeatedly until OFF is displayed.
- After 5 seconds of inactivity, the message box will disappear.

Remote Control Functions: System 4 Home Theater IR Control

Models VS-60719 and VS-70709

The Mitsubishi System 4 Home Theater IR Control is a special feature that makes it easier to use your TV with a digital surround sound A/V receiver. Once your equipment is properly connected and set up, your TV and digital A/V receiver will change inputs together, to match your selected video input with the corresponding audio input.

When you change inputs on your TV to watch different video products, your TV will send signals via your remote control and the infrared emitters to your digital A/V receiver to change inputs. You will automatically hear the high quality digital surround sound from digital products like your DVD player, and high quality analog stereo or surround sound from non-digital products like your VCR.

Additionally, all IR remote signals from your Mitsubishi remote or other manufacturers remote will be passed through your TV to your A/V devices. Your A/V devices can be hidden or behind cabinet doors and controlled by pointing the remote at the TV.

Remote Control Functions: System 4 Home Theater IR Control

Models VS-60719 and VS-70709

Requirements for Operation

➡ A/V devices connected as described on page 15.

➡ Cable Box connected as on page 16 or Cable Box with an S-Video output connected as on page 19, *Connecting an S-Video Device*.

➡ TV connected to A/V receiver (TV Monitor Audio Out To A/V Receiver TV Input).

➡ Remote Control programmed to operate your other A/V Devices by System 4 properly activated (see pages 26-27).

➡ IR emiters properly connected and placed (see page 20).

IMPORTANT

➞ System 4 allows for only one of the following:
- **Cable Box**
- **Satellite Receiver**

Operation (VCR as example)

To watch your VCR:

1. Turn on the TV and A/V Receiver.
2. Move slide switch to VCR.
3. Point remote at the TV and press the HOME THEATER button.
4. The TV and A/V Receiver should change to the appropriate inputs.
5. Operate the VCR.

IMPORTANT

➞ Other commands from your Mitsubishi remote control, or other manufacturer's remote, will be passed through the TV.

Remote Control Functions: Special Functions

When your remote control has been Programmed to operate another manufacturer's product, the function performed on each layer can vary. The most common functions are:

VCR				
•POWER	•PLAY	•PAUSE	•FF/FWD	
•CHANNEL up/down	•REC	•STOP	•REW/REV	
•Mitsubishi VCRs will be compatible with additional buttons				
Cable Boxes and Satellite Receivers				
•POWER	•ENTER (on some models)	•ADJUST up/down/left/right (on some models)		
•CHANNEL up/down	•CANCEL (on some models)			
•0-9 Number Buttons (on some models)		•GUIDE (on some models)		
A/V Receivers				
•POWER	•VOLUME	•MUTE		
Mitsubishi A/V Receivers				
•Direct Input Selection Buttons -use number buttons, SQV, and QV (on some models)				
Mitsubishi CD Players (not all functions for all models)				
•PLAY	•FF/FWD	•REW/REV	•PAUSE	•STOP
DVD and Laser Disc Players (not all functions for all models)				
•POWER	•PLAY	•ARROW up/down/left/right (on some models)	•PAUSE	•CANCEL (on some models)
•MENU	•STOP		•REW/REV	•ENTER
•0-9 Number Buttons (on some models)				

Remote Control Functions: Operation of PIP

Picture-In-Picture (PIP) features allow you to view Programming in different ways. While watching the main screen, you can display programs from other channels and other inputs. To see which inputs can and cannot be used together, see *How Connections Affect the PIP* - Table 1, page 14.

Activating the PIP

Figures 1-5 on following page)

Press PIP to choose a display format. With each press of the PIP button on the TV remote control (within 3 seconds of each other), the PIP will cycle through the following display options.

1. **PIP**
2. **Eleven PIP**
3. **Four PIP**

To turn PIP off, wait at least 10 seconds, and press the PIP button. The next time you activate PIP, the last used PIP format will be displayed first.

Remote Control Functions: Operation of PIP

1

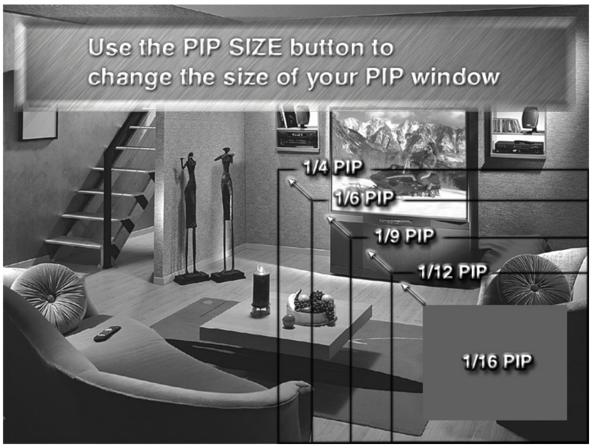

Use the PIP SIZE button to change the size of your PIP window
1/4 PIP
1/6 PIP
1/9 PIP
1/12 PIP
1/16 PIP

Figure 1. *PIP window sizes.*

2

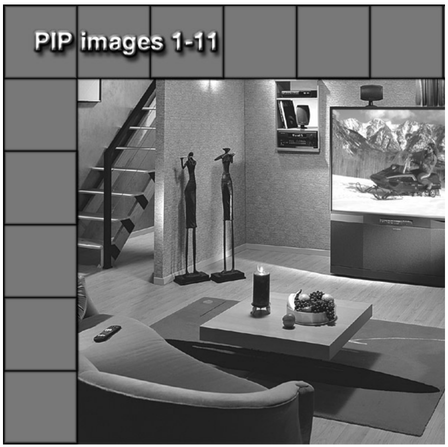


Figure 2. *11 PIP window sizes.*

3

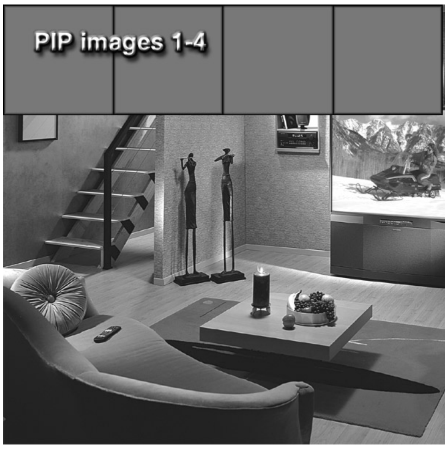


Figure 3. *4 PIP window sizes.*

Changing PIP Inputs

Press PIP INPUT to cycle through available inputs. To see which inputs can and cannot be used together, see *How Connections Affect the PIP* - Table 1, page 14.

Changing PIP Channels

Press PIP CH to scroll up and down through memorized channels on Ant-A, and Ant-B.

Exchanging Program Images

Press ENTER/EXCH to exchange the main picture and the PIP picture.

Moving PIP and Four PIP Image

Press ADJUST ▲, ▼, ◀, or ▶ to move the PIP display anywhere on the main screen, or to select each of the Four PIP locations.

PIP Size (Figure 1)

Press PIP SIZE to cycle through the five sizes available: $^{1}/_{4}$, $^{1}/_{6}$, $^{1}/_{9}$, $^{1}/_{12}$, and $^{1}/_{16}$.

Eleven PIP and Four PIP Automatic Switching (Figures 2 and 3)

When viewing either Eleven PIP or Four PIP, the TV will cycle through memorized channels. Press PAUSE to retain the current live video and discontinue automatic switching.

Freeze the PIP

Press PAUSE to freeze the PIP. Press PAUSE again to return to a “live” image.

Main Image Still Frame

When viewing the main image, press PAUSE and a 1/9 PIP window will open with a display of a still frame from the main image. WARNING: See *Important Notes*, page 21.

PIP Audio Signal

For PIP audio connection illustration, see *Back Panel Functions*, page 13. Volume for the PIP AUDIO OUTPUT is controlled by the amplifier or wireless headphones.

Important Notes

Warning: Do not leave stationary or letterbox images on-screen for extended periods of time. Mix the types of pictures shown. Uneven picture tube aging is NOT covered by your warranty.

The normal use of a TV should include a mixture of TV picture types. The most frequently used picture types should fill the screen with constantly moving images rather than stationary images or patterns. Displaying the same stationary patterns over extended periods of time, or displaying the same stationary pattern frequently can leave a subtle but permanent ghost image. To avoid this, mix your viewing pattern. Do not show the same stationary image for more than 15% of your total TV viewing in any one week. Display constantly moving and changing images that fill the screen whenever possible.

This projection TV uses picture tubes to project the image onto the screen. **All picture tubes age with use.** As they age, their light output is gradually reduced. Normal TV pictures fill the screen with constantly changing images. Under these conditions, picture tubes age at an even rate across the entire screen. This maintains a TV picture that is evenly bright over the whole screen. Stationary images or images that only partially fill the screen (leaving black or colored bars to fill the screen), when used over extended periods of time or when viewed repeatedly, can cause uneven aging of the phosphors and leave subtle ghosts of the stationary images in the picture.

Still or stationary images may be received from broadcasters, cable channels, satellite channels, DVD discs, video tapes, laser discs, on-line services, web/internet searching devices, video games, and digital TV tuner/converter boxes. Examples of these types of images can be, but are not limited to the following:

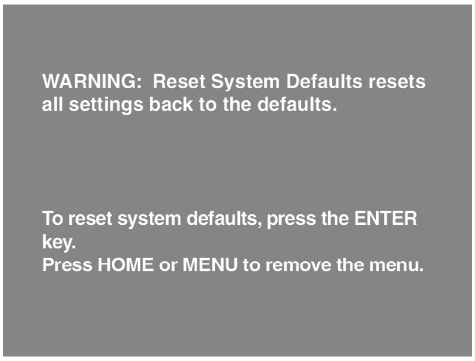
- **Letterbox top/bottom black bars**: shown at the top and bottom of the TV screen when you watch a widescreen (16:9) movie on a standard (4:3) TV.
- **Side bar images**: solid bars shown on each side of an image when watching a standard (4:3) program on a widescreen (16:9) TV.
- **Stock-market report bars**: ticker running at the bottom of the TV screen.
- **Shopping channel logos & pricing displays**: bright graphics that are shown constantly or repeatedly in the same location.
- **Video game patterns and scoreboards**
- **Bright station logos**: moving or low-contrast graphics are less likely to cause uneven aging of the picture tubes.
- **On-line (internet) web sites**: or any other stationary or repetitive computer style images.

Reset System Defaults Instructions Have Been Filed for Future Reference

Reset System Defaults Menu

(Figure 1)

To access the Reset System Defaults menu screen, you must first be out of any active menu screen. You can do this by pressing the HOME button on the remote control. Press the MENU button followed by number buttons 1, 2, and then 3, on the remote control. This sequence will activate the Reset System Defaults menu screen. Pressing the ENTER button on the remote control will reset all option settings back to the factory defaults. Pressing the HOME or MENU buttons on the remote control will remove the Reset System Defaults menu screen and apply no changes to your system settings.



WARNING: Reset System Defaults resets all settings back to the defaults.

To reset system defaults, press the ENTER key.
Press HOME or MENU to remove the menu.

Figure 1. Reset System Defaults menu.

IMPORTANT

- ➞ **When the ENTER button on the remote control is pressed, ALL custom settings will be erased and reset to the factory defaults. This operation CANNOT be undone.**

Lock Bypass Instructions Have Been Filed for Future Reference

Bypassing the V-Chip Lock

After you set the lock, you need your passcode to view a V-Chip locked program, view the locked TV, cancel the lock, or enter the V-Chip lock menus.

If you forget your passcode, you can view the locked TV without entering your passcode. This is done by pressing the number 9 and QV buttons on the remote TV control at the same time, when your passcode is requested. This process temporarily unlocks the TV.

When entering the V-Chip Lock menu, this process deletes your old passcode and prompts you to enter a new passcode.

IMPORTANT

→ **Cut along the dotted line and file bypass instructions in a safe place for future reference.**

IMPORTANT

→ **When changing or deleting your passcode, you must use the remote control included with this TV. You cannot use a Mitsubishi remote control from another component or a "universal" remote.**

Component Input Connection Compatability

These inputs are compatible with component video signals from standard DVD players and other equipment sending a standard NTSC component video signal (480i).

Input Levels and Timing with Component Video

- ➡ Y =1.0Vp-p (includes sync) 75ohms
- ➡ Pr =700mVp-p, 75ohms (can also receive signals from outputs labeled R-Y and Cr)
- ➡ Pb =700mVp-p, 75ohms (can also receive signals from outputs labeled B-Y and Cb)

A/V Receivers

Mitsubishi	010, 011, 012, 013, 014, 015
Admiral	220
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Thompson	251
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Yamaha	250
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Sony	177
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Uniden	171, 172

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ABC	124
Archer	132, 125
Cableview	105, 132
Citizen	122, 105
Color Voice	128, 129, 130, 106, 107
Comtronics	128, 129, 130 ,106, 107
Curtis	112, 113
Diamond	124, 132, 125
Eagle	129
Eastern	134
GC Brand	132, 105
GE	111, 112, 113
Gemini	122, 143
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Cleaning

Normally, light dusting with a dry, non-scratching duster will keep your TV clean. Use care when cleaning your TV with any other product. If you want to gently wipe down your TV with a lightly moistened soft cloth, first turn off and unplug your TV. You can add a few drops of mild liquid detergent to the water for oily dirt.

- ➡ DO NOT allow liquid to enter the TV through the ventilation slots.
- ➡ DO NOT use strong or abrasive cleaners.
- ➡ DO NOT use spray liquids or cleaners directly on the TV's surface.
- ➡ DO NOT scrub or rub the TV harshly.
- ➡ When cleaning the screen behind the Diamond Shield™, wipe GENTLY up and down with the grooves. Do not allow any liquid to drip down the screen into the TV.

IMPORTANT

→ **DO NOT use any kind of abrasive, liquid, or spray cleaner on the surface of the TV screen.**

Service

If you are unable to correct a problem with your TV, consult your Mitsubishi dealer or a Mitsubishi Authorized Warranty Service Center.

- ➡ DO NOT adjust any controls other than those described in this Owner's Guide.
- ➡ DO NOT remove the protective back cover of your TV.

Menus not described and shown in this owner's guide are designed for Factory use and for Authorized Service Personnel. If you see a menu or display not described in this owner's guide, make no changes to the settings, turn off the TV to clear the displays and return to normal operation. Non-authorized changes and changes made by non-authorized persons may void all or part of the warranty.

IMPORTANT

→ **For further assistance, please call**

(800) 332-2119

Problem	Possible Solution
• The TV remote control does not work.	• Check that the batteries are installed correctly. • Check that the selected switch is set to “TV”. • Be no further than 20 feet from the TV when using the remote control.
• The TV takes several seconds to respond to channel commands.	• Press ENTER after a channel number to avoid delays. • Use the three digit number, i.e 002 for channel 2.
• You cannot access a channel.	• Use number keys instead of CHANNEL up/down. • Be sure the channel you want to view is in memory. • Check that the TV is turned to the correct input source for that channel, by pressing the INPUT button. • Make sure the V-Chip lock is off (page 34).
• On-screen displays appear each time you change a function.	• This is part of normal TV operation.
• You cannot program the TV to turn on automatically.	• The TV may be locked. • The clock may not be set.
• There is no sound even when the volume is turned up.	• Check to see if the MUTE button is on. • The TV’s “Listen to:” setting may be set to SAP. • Check that “TV Speakers” setting is ON.
• You have forgotten your lock passcode.	• See *Appendix A, Bypassing the V-Chip Lock*, page 59.
• PIP does not display a picture.	• Make sure the V-Chip lock is off (page 36). • Not all inputs can be displayed as a PIP (page 14).
• The sound does not match the screen picture.	• The TV’s “Listen to:” setting may be set to SAP. • If using stereo or A/V reveiver speakers, check input selection on the stereo or A/V receiver. • If using stereo or A/V receiver, check that AUDIO is from MONITOR OUTPUT on TV’s back panel.
• There is a large black or gray rectangle on the screen.	• The TV closed captioning has been set to “text” mode, but there is no text information being broadcast. Turn Off in the CAPTIONS menu (page 34).
• You cannot see a picture when you play a VCR tape.	• If you connected your VCR with A/V cables, use the INPUT button to select the Input source (INPUT-1, INPUT-2, or INPUT-3) that the VCR is connected to. • Check your VCRs owner’s guide for further troubleshooting.
• V-Chip Lock is not working	• Make sure that V-Chip is On (page 36). • If V-Chip Hours/Lock by Time is currently set to dissable the V-Chip lock, the V-Chip will not block programing.

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MITSUBISHI PROJECTION TELEVISION LIMITED WARRANTY

MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC. (“MDEA”) warrants to the original purchaser of this television that if purchased from an authorized MITSUBISHI Audio/Video Dealer, should it prove defective by reason of improper workmanship and/or material:

a. **Parts**. The lenticular (i.e. front picture) screen and/or the DiamondShield™ is warranted against defects in materials and workmanship for a period of 30 days. All other parts are warranted for a period of one year from the date of the original purchase at retail. We will repair or replace, at our option, any defective part without charge for the part. Parts used for replacement are warranted for the remainder of the original warranty period.

b. **Labor**. For 30 days after the original purchase at retail, we will repair or replace, at our option, the lenticular screen if it proves defective. For all other parts, we will provide the labor for a warranty repair by an authorized MITSUBISHI service center without charge for one year from the original date or purchase at retail.

c. **Notice**. To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.

1. TO OBTAIN WARRANTY SERVICE:

a. Contact your nearest authorized MITSUBISHI service center whose name and address can be obtained from your MITSUBISHI dealer or by writing or calling MDEA at the address and telephone number provided below.

b. Warranty service will be provided in your home or, if required, at an authorized service shop, provided that your television is located within the geographic territory customarily covered by an authorized MITSUBISHI service center. If not, you must either deliver your television to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.

c. Proof of purchase date from an authorized MITSUBISHI dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF WARRANTY COVERAGE. However, please return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

2. THIS WARRANTY DOES NOT COVER damage caused by: modification, alteration, repair or service of the product by anyone other than an authorized MITSUBISHI service center; physical abuse to, or misuse of, the product; operation in a manner contrary to the instructions which accompany the product, including uneven picture tube aging and imprinted images on the viewing screen; freight damage; or any damage caused by acts of God such as lightning or fluctuation in electrical power. This warranty also excludes all costs arising from installation, adjustment of user controls, external antenna systems, service of products purchased or service outside the U.S.A., initial technical adjustments (set-up) and user-required maintenance. Consult the operating instructions furnished with the product for information regarding user controls.

3. ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR.

4. UNDER NO CIRCUMSTANCES SHALL MDEA BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, OR OTHERWISE.

5. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental, special or consequential damages, so the above limitations or exclusions may not apply to you.

6. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

7. BEFORE REQUESTING SERVICE, please review the instruction booklet to insure proper installation and correct customer control adjustment. If the problem persists, contact your nearest MITSUBISHI Dealer for the name(s) of authorized MITSUBISHI Service Center(s). If you are unable to obtain this information, please call 800-332-2119, or write us at the address below.

MITSUBISHI DIGITAL ELECTRONICS AMERICA, INC.
9351 Jeronimo Road
Irvine, CA 92618-1904

MITSUBISHI

RETAIN THIS PORTION FOR YOUR RECORDS

SERIAL NO. ______________________

MODEL NO. ______________________

DEALER NAME ______________________

STREET ADDRESS ______________________

CITY ______________________ STATE ________ ZIP ______________

PHONE (_____) ______________________ PURCHASE DATE ______________________

MITSUBISHI
THE BIG SCREEN COMPANY™
Digital

If you have questions regarding your television, call Consumer Relations at
(800) 332-2119, or email us at **MDEAservice@bigscreen.mea.com**

To order replacement or additional remote controls or owner's guides
call (800) 553-7278

or

visit our website at **www.mitsubishi-tv.com**

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